

Kit SDS Cover Sheet
Product Name:
Item No(s):
This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). If a component does not have a Safety Data Sheet included, the item falls under Hazard Communication [1910.1200(b)(6)], <i>Articles</i> , and does not require a Safety Data Sheet.
Kit Components:
For product information, please contact your Neogen Corporation Representative. For further information regarding this SDS, please contact SDS@neogen.com .



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Walnut Standards

Revision **Revision date** 2023-11-20

Print date 2023-11-20

1.1. Product identifier

Product name	Walnut Standards
Product code	(8550)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;	
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.	

1.3 Details of the supplier of the safety data sheet

1.3. Details of the supplier of the safety data sneet				
Company	Neogen Corporation			
Address	620 Lesher Place			
	Lansing MI 48912			
	USA			
Web	www.neogen.com			
Telephone	517-372-9200/800-234-5333			
Email	SDS@neogen.com			

1.4. Emergency telephone number

24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Skin Sens. 1: H317;
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2.2. Label elements Hazard pictograms

•	ıazaıu	piciograms	



Signal Word

Warning

Hazard Statement

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary Statement:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

Prevention

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement:

P302+P352 - IF ON SKIN: Wash with plenty of water/ .

Response

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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2.2. Label elements			
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.		
2.3. Other hazards			
Other hazards	Contains material(s) which may be harmful if swallowed.		
SECTION 3: Composition/information on ingredients			

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
1,2-Benzisothiazol-3(2H)-one	613-088-00-6	2634-33-5	220-120-9		0 - 0.5%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400;

Description				
	Concentrations listed are not product specifications.			
Particle Characteristics				
	Not applicable.			
Further information				
	Full text of Hazard Statements listed in this Section is provided in Section 16.			

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
40.14.44.4	

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.	
Eye contact	May cause irritation to eyes.	
Skin contact	May cause irritation to skin. May cause dermatitis.	
Ingestion	Ingestion may cause nausea and vomiting.	

4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

1

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5.2. Special hazards arising from the substance or mixture Product does not support combustion. Do not allow undiluted product water, water course or sewage system. 5.3. Advice for firefighters Do not breathe vapor or spray mist. Wear self-contained breathing at chemical-protective clothing. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Use as appropriate: Protective equipment, Protective clothing. Ensur working area. Avoid prolonged or repeated exposure. 6.2. Environmental precautions Prevent further spillage if safe. Clean spillage area thoroughly with procedures	t to be released to ground
water, water course or sewage system. 5.3. Advice for firefighters Do not breathe vapor or spray mist. Wear self-contained breathing as chemical-protective clothing. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Use as appropriate: Protective equipment, Protective clothing. Ensur working area. Avoid prolonged or repeated exposure. 6.2. Environmental precautions Prevent further spillage if safe. Clean spillage area thoroughly with plants.	t to be released to ground
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Chemical-protective clothing. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Use as appropriate: Protective equipment, Protective clothing. Ensur working area. Avoid prolonged or repeated exposure. 6.2. Environmental precautions Prevent further spillage if safe. Clean spillage area thoroughly with plants.	
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Use as appropriate: Protective equipment, Protective clothing. Ensur working area. Avoid prolonged or repeated exposure. 6.2. Environmental precautions Prevent further spillage if safe. Clean spillage area thoroughly with plants.	
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Prevent further spillage if safe. Clean spillage area thoroughly with pl	e adequate ventilation of the
into surface water. Do not let product contaminate subsoil.	enty of water. Do not flush
6.3. Methods and material for containment and cleaning up	
Absorb spillage to prevent material damage. Clean spillage area thor Do not contaminate water by cleaning of equipment or disposal of water by cleaning or equipment or disposal or water by cleaning or equipment or disposal or equipment or equip	
6.4. Reference to other sections	
See Section(s) 2, 8, and 13 for further information.	_
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Adopt best Manual Handling considerations when handling, carrying with eyes. Do not eat, drink or smoke in areas where this product is a adequate ventilation of the working area. Do not contaminate water be disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and provided the second	used or stored. Ensure by cleaning of equipment or
7.2. Conditions for safe storage, including any incompatibilities	
Store at temperatures between 2 °C and 8 °C. Follow label instruction Store in correctly labelled containers. Keep container tightly closed. If food, or feed by storage or disposal.	
7.3. Specific end use(s)	
See Section(s) 1.2 for further information.	
Further information	
Refer to product label and/or package insert for additional information	n. Follow label instructions.
SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
No occupational exposure limits known.	
8.2. Exposure controls	
Appropriate engineering Ensure adequate ventilation of the working area.	

controls

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8.2. Exposure control	S
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Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand	Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside
protection	of gloves before removing them.
Skin protection - Other	Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other
	laundry, with detergent and water before reuse.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health
controls	effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash
	station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
	Colorless
	Odorless
	7 - 7.4
Density / Relative Density	
	No data available
Partition coefficient (P)	
Autoignition temperature	
= -	No data available
·	No data available
	No data available
	No data available
	No data available
Evaporation rate	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative Vapour Density	No data available
Odor threshold	No data available
Flammability limits	Not applicable.
Explosive properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	No data available
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.



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10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous re	eactions
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or
	pressure are not expected.
10.4. Conditions to avoid	
	Keep away from extreme temperatures.
10.5. Incompatible materials	
	No data available.
10.6. Hazardous decomposition	products
·	Carbon oxides.
SECTION 11: Toxicological	information
11.1 Information on hazard clas	
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin. May cause dermatitis.
	May cause irritation to eyes.
Serious eye damage/irritation	
Respiratory or skin sensitization	May cause allergic reactions in susceptible people. May cause sensitization by skin contact.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial
	Hygienists (ACGIH) Guide to Occupational Exposure Values.
	No components at >0.01% are listed in the International Agency for Research on Cancer (IARC)
	Monographs. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on
	Carcinogens.
	Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of
exposure	hypersensitivity (difficult breathing, coughing, asthma) are possible.
11.1.2. Mixtures	,
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological information	1
	No data available
11.1.5. Hazard Class	
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	•
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures.
	See Section 15 for regulatory citations.
11.1.7. Information on likely rou	tes of exposure

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11.1.7. Information on likely rou	utes of exposure
	Eye contact. Skin contact. Ingestion. Inhalation.
11.1.8. Symptoms related to th	e physical, chemical and toxicological characteristics
	See Section(s) 4.2 for further information.
11.1.9. Delayed and immediate	e effects as well as chronic effects from short and long-term exposure
	See Section(s) 4.2 for further information.
11.1.10. Interactive effects	·
	No data available.
11.1.11. Absence of specific da	ata
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substa	nce information
	See Section(s) 3 for further information.
11.1.13. Other information	·
	No data available.
11.2 Information on other haza	rds
	No data available.
SECTION 12: Ecological in	formation
12.1. Toxicity	
12.1. TOXICITY	No data available
12.2. Persistence and degrada	
12.2. I eroioterice and degrada	No data is available on this product.
12.3. Bioaccumulative potentia	· · · · · · · · · · · · · · · · · · ·
12.0. Dioaccumulative potentia	No data is available on this product.
12.4. Mobility in soil	140 data is available on this product.
12.4. WODING III 9011	No data is available on this product.
12.5. Results of PBT and vPvB	•
12.5. Nesults of FBT and VI VE	No data is available on this product.
12.6 Endocrine disrupting prop	·
12.0 Endocrine disrupting prop	No data is available on this product.
12.7 Other adverse effects	No data is available on this product.
12.7 Other adverse effects	Specific test data for the mixture is not available.
Further information	Specific test data for the mixture is not available.
rurner information	Keep out of letter monde, or strooms. Do not let modulet contenting to outself
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal con	siderations
13.1. Waste treatment methods	5
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surfact water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	

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Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	er
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk	according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory in	formation
15.1. Safety, health and enviror	mental regulations/legislation specific for the substance or mixture
Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical	Contact SDS@neogen.com for additional information. Please specify country or region with your

Inventories

Lists:

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
1,2-Benzisothiazol-3(2H)-one	Y	N	N	N	N	N	N	N	N

California Prop 65: This product does not contain reportable substances at >0.0001%

SECTION 16: Other information

Inventories/Right-to-Know

request.

concentration.

Other information

Othor Information	
Revision	This document differs from the previous version in the following areas:. 2 - Precautionary Statement: Response. 2 - 2.1.2. Classification - GHS. 3 - Description. 4 - Skin contact. 7 - 7.2. Conditions for safe storage, including any incompatibilities. 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.2. Other information (Gas group). 11 - Acute toxicity. 11 - Skin corrosion/irritation.

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Other information

Acronyms

11 - Respiratory or skin sensitization.

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by

Rail (RID) and by Road (ADR).
CAS No.: Chemical Abstracts Service.

CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013

(Malaysia).

FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.

GHS: Globally Harmonized System.

HCS 2012: Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods.

LD: Lethal dose.

OEL: Occupational exposure limit.

OSHA: U.S. Occupational Safety and Health Administration.

PEL: Permissible Exposure Limit.

REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.

STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern.

US DOT: United States Department of Transportation.

VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.

Text of Hazard Statements in Section 3

Acute Tox. 4: H302 - Harmful if swallowed.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life.

Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.



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according to 29 CFR 1910.1200 and GHS

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Walnut Conjugate

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1.1. Product identifier

Product name	Walnut Conjugate
Product code	(8550)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use

1.3. Details of the supplier of the safety data sheet

1.3. Details of the supplier of the	safety data sheet
Company	Neogen Corporation
Address	620 Lesher Place
	Lansing MI 48912
	USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number

24 hours:

Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)

Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Skin Sens. 1: H317	7; Resp. Sens. 1: H334;
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2.2. Label elements

Hazard pictograms



Signal Word

Hazard Statement

Danger

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statement:

Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - In case of inadequate ventilation, wear respiratory protection.

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2.2. Label elements

Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
Response	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ .
Precautionary Statement:	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with
Disposal	local and national regulations.
2.3 Other hazards	

2.3. Other hazards

Other hazards Contains material(s) which may be harmful if swallowed.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
Sucrose		57-50-1	200-334-9		1 - 10%	
Peroxidase, from horseradish		9003-99-0	232-668-6		1 - 10%	Resp. Sens. 1: H334;
Sodium azide (as Hydrazoic acid vapor)	011-004-00-7	26628-22-8	247-852-1		0 - <0.1%	Acute Tox. 2: H300; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
5-Chloro-2-methyl-4-isothiazolin-3-c ne [EC No 247-500-7] {3 parts of} and 2-Methyl-4-isothiazolin-3-0ne [EC No 220-239-6] {1 part of}, mixture of	613-167-00-5	55965-84-9			0 - <0.1%	Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

Description

Concentrations listed are not product specifications.

Particle Characteristics

Not applicable.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin. May cause dermatitis.

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4.2. Most important symptoms and	Revision date 2023-11-2 d effects, both acute and delayed
	Ingestion may cause nausea and vomiting.
-	nedical attention and special treatment needed
	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from	the substance or mixture
	Product does not support combustion. Do not allow undiluted product to be released to ground water, water course or sewage system.
5.3. Advice for firefighters	
	Do not breathe vapor or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.
SECTION 6: Accidental releas	se measures
6.1. Personal precautions, protect	tive equipment and emergency procedures
	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.
6.2. Environmental precautions	
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
6.3. Methods and material for con	tainment and cleaning up
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Reference to other sections	
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and sto	prage
7.1. Precautions for safe handling	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
	Store at temperatures between 2 °C and 8 °C. Follow label instructions. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal.
7.3. Specific end use(s)	
	See Section(s) 1.2 for further information.
Further information	
	Refer to product label and/or package insert for additional information. Follow label instructions.
SECTION 8: Exposure control	ls/personal protection

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8.1. Control parameters

Exposure Limit Values

Glycerin (Glycerin mist)	ACGIH TLV TWA: 10 mg/m³	ACGIH TLV STEL: -
	Notations: -	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 15	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:
Sodium azide (as Hydrazoic acid	ACGIH TLV TWA: -	ACGIH TLV STEL: C 0.11 ppm
vapor)		
	Notations: A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: -	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:
Sucrose	ACGIH TLV TWA: 10 mg/m ³	ACGIH TLV STEL: -
	Notations: A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 15	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:

8.2. Exposure controls







Appropriate engineering controls

Individual protection measures Use as appropriate

Eye / face protection

Skin protection - Hand protection

Skin protection - Other

Skiii protection - Other

Respiratory protection

Occupational exposure controls

Ensure adequate ventilation of the working area.

Use as appropriate: Protective equipment.

Use as appropriate: Suitable eye protection.

Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.

Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.

In case of insufficient ventilation, wear suitable respiratory equipment.

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Color	Colorless
Odor	Odorless
pH	7 - 7.4
Density / Relative Density	1
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative Vapour Density	No data available
Odor threshold	No data available
Flammability limits	Not applicable.
Explosive properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	No data available
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Keep away from extreme temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

Revision 1
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11.1 Information on hazard classes

11.1 IIIIOIIIIauoii oii iiazaiu cias	565				
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.				
Skin corrosion/irritation	May cause irritation to skin. May cause dermatitis.				
Serious eye damage/irritation	May cause irritation to eyes.				
Respiratory or skin sensitization	May cause allergic reactions in susceptible people. May cause sensitization by inhalation and skin contact.				
Germ cell mutagenicity	No mutagenic effects reported.				
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens.				
	Not listed in the OSHA standard 1910.1003 Carcinogens.				
Reproductive toxicity	No teratogenic effects reported.				
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
STOT-repeated exposure	No Significant Hazard.				
Aspiration hazard	No Significant Hazard.				
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.				
11.1.2. Mixtures					
	See Section(s) 3 for further information.				
11.1.3. Hazard Information	· · · · · · · · · · · · · · · · · · ·				
	See Section(s) 2 and 3 for further information.				
11.1.4. Toxicological information	1				
	No data available				
11.1.5. Hazard Class					
	See Section(s) 2 and 14 for further information.				
11.1.6. Classification Criteria					
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.				
11.1.7. Information on likely rout	tes of exposure				
	Eye contact. Skin contact. Ingestion. Inhalation.				
11.1.8. Symptoms related to the	physical, chemical and toxicological characteristics				
	See Section(s) 4.2 for further information.				
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure				
	See Section(s) 4.2 for further information.				
11.1.10. Interactive effects					
	No data available.				
11.1.11. Absence of specific dat	a				
	<1% of this mixture consists of ingredients of unknown acute toxicity.				
11.1.12. Mixture versus substan	ce information				
	See Section(s) 3 for further information.				
	-				

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11.1.13. Other information	,
	No data available.
11.2 Information on other hazar	ds
	No data available.
SECTION 12: Ecological info	ormation
12.1. Toxicity	
	No data available
12.2. Persistence and degradab	ility
	No data is available on this product.
12.3. Bioaccumulative potential	
	No data is available on this product.
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvB	assessment
	No data is available on this product.
12.6 Endocrine disrupting prope	erties
	No data is available on this product.
12.7 Other adverse effects	
	Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal cons	siderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)
	The product is not classified as dangerous for carriage.
14.4. Packing group	

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14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational
	Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical	Contact SDS@neogen.com for additional information. Please specify country or region with your
Inventories/Right-to-Know	request.
Lists:	
	California Prop 65: This product does not contain reportable substances at >0.0001%
	concentration.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Sucrose (.alphaD-Glucopyranoside, .betaD-fructofuranosyl)	Y	N	N	N	N	N	N	N	N
Glycerin (1,2,3-Propanetriol)	Υ	N	N	N	N	N	N	N	N
Sodium azide (Sodium azide (Na(N3)))	Υ	Ν	Y 1.0	N	N	N	N	Y 500	Y 1,000
5-Chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] {3 parts of} and 2-Methyl-4-isothiazolin-3-0ne [EC No 220-239-6] {1 part of}, mixture of	N	N	N	N	N	N	N	N	N

SECTION 16: Other information

Other information

Other information	
Revision	This document differs from the previous version in the following areas:.
	2 - 2.1. Classification of the substance or mixture.
	2 - 2.1.2. Classification - GHS.
	2 - Precautionary Statement: Prevention.
	2 - Precautionary Statement: Response.
	2 - 2.1.2. Classification - GHS.
	3 - Description.
	4 - Inhalation.
	4 - Skin contact.
	7 - 7.2. Conditions for safe storage, including any incompatibilities.
	8 - 8.1. Control parameters.
	9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).
	9 - 9.2. Other information (Gas group).
	11 - Acute toxicity.
	11 - Skin corrosion/irritation.
	11 - Respiratory or skin sensitization.
	12 - 12.1. Toxicity.
	15 - Labelling.
	15 - Hazard Statements.
	15 - Safety phrases.

ChemSoft EH&S

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Other information

Rail (RID) and by Road (ADR).

CAS No.: Chemical Abstracts Service.

CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013

(Malaysia).

FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.

GHS: Globally Harmonized System.

HCS 2012: Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods.

LD: Lethal dose.

OEL: Occupational exposure limit.

OSHA: U.S. Occupational Safety and Health Administration.

PEL: Permissible Exposure Limit.

REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.

STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern.

US DOT: United States Department of Transportation.

VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.

Text of Hazard Statements in Section 3

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

EUH032 - Contact with acids liberates very toxic gas.

Acute Tox. 2: H300 - Fatal if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Acute Tox. 3: H301 - Toxic if swallowed.

Acute Tox. 3: H311 - Toxic in contact with skin.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Powered by

Eye Irrit. 2: H319 - Causes serious eye irritation.

Acute Tox. 3: H331 - Toxic if inhaled.

Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.



3.2. Mixtures

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/10

K-Blue® Advanced Plus TMB Substrate

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SECTION 1: Identification of	SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	K-Blue® Advanced Plus TMB Substrate		
Product code	379171, 379175, 379176, 379177, 379257, 379xxx		
1.2. Relevant identified uses of t	the substance or mixture and uses advised against		
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;		
Description	Intended for use in routine analytics, including quality control and monitoring.		
1.3. Details of the supplier of the	safety data sheet		
Company	Neogen Corporation		
Address	620 Lesher Place Lansing MI 48912 USA		
Web	www.neogen.com		
Telephone	517-372-9200/800-234-5333		
Email	SDS@neogen.com		
1.4. Emergency telephone numb	per		
	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)		
SECTION 2: Hazards identifi	ication		
2.1. Classification of the substar	nce or mixture		
2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.		
2.2. Label elements			
Hazard Statements	No Significant Hazard		
2.3. Other hazards			
Other hazards	Contains material(s) which may be harmful if swallowed.		
SECTION 3: Composition/inf	formation on ingredients		

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
Dimethyl sulfoxide		67-68-5	200-664-3			Flam. Liq. 4: H227; Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Urea hydrogen peroxide		124-43-6	204-701-4		0 - <0.5%	Ox. Sol. 3: H272; Skin Corr. 1B: H314; Eye Dam. 1: H318;

Description

Concentrations listed are not product specifications.

Particle Characteristics

Not applicable.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.	
Eye contact	lay cause irritation to eyes.	
Skin contact	May cause irritation to skin.	
Ingestion	Ingestion may cause nausea and vomiting.	

4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Not classifiable as flammable, but this product contains flammable substance(s) at <10.0%. Do not allow undiluted product to be released to ground water, water course or sewage system.

5.3. Advice for firefighters

Do not breathe vapor or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.

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SECTION 6: Accidental relea	ase measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.
6.2. Environmental precautions	
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
6.3. Methods and material for co	ontainment and cleaning up
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Reference to other sections	
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handlin	ng
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.
7.2. Conditions for safe storage,	including any incompatibilities
	Store at temperatures between 2 °C and 30 °C. Follow label instructions. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal.
7.3. Specific end use(s)	·
	See Section(s) 1.2 for further information.
Further information	·
	Refer to product label and/or package insert for additional information. Follow label instructions.
SECTION 8: Exposure contr	ols/nersonal protection
8.1. Control parameters	olo, por cortai proceducii
o. r. Goria or paramotoro	No occupational exposure limits known.
8.2. Exposure controls	The decapational exposure limits known.
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.

Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other

Skin protection - Other

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8.2.	Exposure	contro	ls

	laundry, with detergent and water before reuse.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wasl station.
Further information	

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
	Clear/Colorless
Odor	Odorless
Odor threshold	No data available
рН	3.1 - 3.4
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	No data available
Partition coefficient (P)	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	Not applicable.
Oxidizing properties	
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	No data available
compounds)	

SECTION 10: Stability and reactivity

		Rea	

	Stable under normal conditions.		
10.2. Chemical stability			
	Stable under normal conditions.		
10.3. Possibility of hazardous reactions			

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10.3. Possibility of hazardous re	actions
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
10.4. Conditions to avoid	
	Keep away from extreme temperatures.
10.5. Incompatible materials	<u>'</u>
•	No data available.
10.6. Hazardous decomposition	· · · · · · · · · · · · · · · · · · ·
To.o. Hazardous decomposition	Carbon oxides.
SECTION 11: Toxicological	information
11.1 Information on hazard class	ses
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.
11.1.2. Mixtures	
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological information	· · · · · · · · · · · · · · · · · · ·
THE POSTOCIOGICAL INFORMATION	No data available
11.1.5. Hazard Class	No data available
TT. 1.5. Flazard Class	
44.40.01 15 11 5 11 1	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
11.1.7. Information on likely rout	tes of exposure

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11.1.7. Information on likely rout	tes of exposure
	Eye contact. Skin contact. Ingestion. Inhalation.
11.1.8. Symptoms related to the	physical, chemical and toxicological characteristics
	See Section(s) 4.2 for further information.
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure
	See Section(s) 4.2 for further information.
11.1.10. Interactive effects	
	No data available.
11.1.11. Absence of specific dat	а
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substan	ce information
	See Section(s) 3 for further information.
11.1.13. Other information	
	No data available.
SECTION 12: Ecological info	ormation
12.1. Toxicity	
	No data available
12.2. Persistence and degradab	ility
	No data is available on this product.
12.3. Bioaccumulative potential	·
	No data is available on this product.
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvB	assessment
	No data is available on this product.
12.6 Endocrine disrupting prope	rties
	No data is available on this product.
12.7 Other adverse effects	
	Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	

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Disposal of packaging			
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.		
SECTION 14: Transport info	rmation		
14.1. UN number			
	The product is not classified as dangerous for carriage.		
14.2. UN proper shipping name			
	The product is not classified as dangerous for carriage.		
14.3. Transport hazard class(es)		
	The product is not classified as dangerous for carriage.		
14.4. Packing group			
	The product is not classified as dangerous for carriage.		
14.5. Environmental hazards	<u> </u>		
	The product is not classified as dangerous for carriage.		
14.6. Special precautions for us	er		
	The product is not classified as dangerous for carriage.		
14.7 Maritime Transport in bulk	according to IMO instruments		
	The product is not classified as dangerous for carriage.		
SECTION 15: Regulatory in	iormation		
15.1. Safety, health and environ	nmental regulations/legislation specific for the substance or mixture		
Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.		
Chamical	International		

	· ·			
	Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.			
Chemical	International			
Inventories/Right-to-Know	Basel Convention (Hazardous Waste): Not applicable.			
Lists:	Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or			
	above published reporting levels.			
	Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above			
	published reporting levels.			
	Mercosur Agreement: Applicable.			
	Montreal Protocol: This product contains no hazardous substances at or above published			

Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.

The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.

The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.

--Asia and the ASEAN Nations--.

Catalog of Hazardous Chemicals (China): [899, Urea peroxide, CAS No. 124-43-6 (<0.1%)]. Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

published reporting levels.

Chemical Substances Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Industrial Safety and Health Act, Dangerous Substances (Japan): This product contains no hazardous substances at or above published reporting levels.

Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous substances at or above published reporting levels.

PRTR-SDS Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Soil Contamination Countermeasures Act (Japan): This product contains no hazardous substances at or above published reporting levels.

Water Pollution Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Chemical Substances Subject to Permission (Korea): This product contains no hazardous substances at or above published reporting levels.

Restricted or Prohibited Substances (Korea): This product contains no hazardous substances at or above published reporting levels.

Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This product contains no hazardous substances at or above published reporting levels.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969):, All ingredients listed or exempt., No restrictions.

Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This product contains no hazardous substances at or above published reporting levels.

Hazardous Substances Act (Thailand): This product contains no hazardous substances at or above published reporting levels.

Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, Decree 113/2017/ND-CP: List of chemicals subject to conditional industrial production and trading, [Urea peroxide, CAS No. 124-43-6 (<0.1%)].

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt., No restrictions.

New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt., No restrictions.

--European Union (EU) and the United Kingdom (UK)--.

Authorization List (Annex XIV of REACH): This product contains no hazardous substances at or above published reporting levels.

Annex XVII for REACH: This product contains no hazardous substances at or above published reporting levels, No restrictions.

Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America --.

Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt., No restrictions.

Toxic Substances Control Act (TSCA): All ingredients listed or exempt.

Massachusetts Right-to-Know Hazardous Substance List: This product contains no hazardous substances at or above published reporting levels.

New Jersey Worker and Community Right to Know Act: Dimethyl sulfoxide, CAS No.67-68-5. Pennsylvania Right to Know Law: This product contains no hazardous substances at or above published reporting levels.

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.

California Prop 65: This product does not contain reportable substances at >0.0001% concentration.

SECTION 16: Other information

SECTION 16: Other information				
Other information				
Revision	This document differs from the previous version in the following areas:. 1 - Description.			
	3 - Description.			
	3 - Particle Characteristics.			
	5 - 5.2. Special hazards arising from the substance or mixture.			
	7 - 7.2. Conditions for safe storage, including any incompatibilities.			
	9 - 9.2. Other information (Gas group).			
	11 - Acute toxicity.			
	15 - Chemical Inventories/Right-to-Know Lists:.			
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).			
	CAS No.: Chemical Abstracts Service.			
	CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013			
	(Malaysia). FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.			
	GHS: Globally Harmonized System.			
	HCS 2012: Hazard Communication Standard (2012 revision).			
	IATA: International Air Transport Association.			
	ICAO: International Civil Aviation Organization.			
	IMDG: International Maritime Dangerous Goods.			
	LD: Lethal dose.			
	OEL: Occupational exposure limit.			
	OSHA: U.S. Occupational Safety and Health Administration.			
	PEL: Permissible Exposure Limit.			
	REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.			
	STOT: Specific Target Organ Toxicity.			
	SVHC: Substance of very high concern.			
	US DOT: United States Department of Transportation.			
	VOC: Volatile Organic Compound.			
	WEL: Workplace Exposure Limit.			
Text of Hazard Statements in	Flam. Liq. 4: H227 - Combustible liquid.			
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.			
	Eva Irrit 2: H310 - Causas serious ava irritation			

Eye Irrit. 2: H319 - Causes serious eye irritation. Ox. Sol. 3: H272 - May intensify fire; oxidiser.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Eye Dam. 1: H318 - Causes serious eye damage.

Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to

Revision 2 Revision date 2023-03-16

Further information

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.



3.2. Mixtures

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Red Stop Solution

Revision 7 Revision date 2023-03-16

	Revision date 2023-03-10				
SECTION 1: Identification of	f the substance/mixture and of the company/undertaking				
1.1. Product identifier	1.1. Product identifier				
Product name	Red Stop Solution				
Product code	301210, 301471, 301473, 301474, 301475, 301476				
1.2. Relevant identified uses of	the substance or mixture and uses advised against				
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;				
Description	Intended for use in routine analytics, including quality control and monitoring.				
1.3. Details of the supplier of the	e safety data sheet				
Company	Neogen Corporation				
Address	620 Lesher Place				
	Lansing MI 48912				
	USA				
Web	www.neogen.com				
Telephone	517-372-9200/800-234-5333				
Email	SDS@neogen.com				
1.4. Emergency telephone number					
	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)				
SECTION 2: Hazards identif	ication				
2.1. Classification of the substance or mixture					
2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.				
2.2. Label elements					
Hazard Statements	No Significant Hazard				
2.3. Other hazards					
Other hazards	Contains material(s) which may be harmful if swallowed.				
SECTION 3: Composition/information on ingredients					

Revision 7 Revision date 2023-03-16

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
Sodium fluoride.		7681-49-4	231-667-8		0 - 0.5%	Acute Tox. 3: H301; Skin
						Corr. 1C: H314; Eye Irrit. 2:
						H319; Aquatic Acute 3: H402;

Description

Concentrations listed are not product specifications.

Particle Characteristics

Not applicable.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Product does not support combustion. Do not allow undiluted product to be released to ground water, water course or sewage system.

5.3. Advice for firefighters

Do not breathe vapor or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6: Accidental release measures

Revision **Revision date** 2023-03-16

6.1. Personal precautions, protective equipment and emergency procedures

	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the
	working area. Avoid prolonged or repeated exposure.
6.2 Environmental precautions	

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

6.3. Methods and material for containment and cleaning up

Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures between 2 °C and 30 °C. Follow label instructions. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits known.

8.2. Exposure controls







Appropriate engineering controls

Ensure adequate ventilation of the working area.

Individual protection measures

Use as appropriate: Protective equipment.

Eye / face protection

Use as appropriate: Suitable eye protection.

Skin protection - Hand protection

Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside

Skin protection - Other

Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

of gloves before removing them.

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8.2. Exposure of	ontrols
------------------	---------

Occupational exposure	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health
controls	effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash
	station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State Liquid
Color Clear/Red

Odor Characteristic

Odor threshold No data available

pH 8.7

Melting point No data available

Freezing Point No data available

Initial boiling point No data available

Flash point No data available

Evaporation rate No data available

Flammability limits Not applicable.

Vapor pressure No data available

Relative Vapour Density No data available

Density / Relative Density No data available **Partition coefficient (P)** No data available

Autoignition temperature No data available

Viscosity No data available

Explosive properties Not applicable.

Oxidizing properties No data available

Solubility | Soluble in water

9.2. Other information

Conductivity
Surface tension
Gas group
Benzene Content
Lead content
VOC (Volatile organic compounds)
No data available
No data available
No data available
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

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10.4. Conditions to avoid	
	Keep away from extreme temperatures.
10.5. Incompatible materials	•
	No data available.
10.6. Hazardous decomposition	
Total Hazarada accomposition	Carbon oxides.
SECTION 11: Toxicological i	information
11.1 Information on hazard class	ses
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain
	substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial
	Hygienists (ACGIH) Guide to Occupational Exposure Values.
	No components at >0.01% are listed in the International Agency for Research on Cancer (IARC)
	Monographs.
	No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens.
	Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of
exposure	hypersensitivity (difficult breathing, coughing, asthma) are possible.
11.1.2. Mixtures	·
	See Section(s) 3 for further information.
11.1.3. Hazard Information	•
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological information	<u> </u>
	No data available
11.1.5. Hazard Class	
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures.
	See Section 15 for regulatory citations.
11.1.7. Information on likely rout	es of exposure
	Eye contact. Skin contact. Ingestion. Inhalation.
11.1.8. Symptoms related to the physical, chemical and toxicological characteristics	
	See Section(s) 4.2 for further information.
	•

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11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure
	See Section(s) 4.2 for further information.
11.1.10. Interactive effects	
	No data available.
11.1.11. Absence of specific dat	a
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substan	ce information
	See Section(s) 3 for further information.
11.1.13. Other information	
	No data available.
SECTION 12: Ecological info	ormation
12.1. Toxicity	
	No data available
12.2. Persistence and degradab	ility
	No data is available on this product.
12.3. Bioaccumulative potential	·
	No data is available on this product.
12.4. Mobility in soil	·
	No data is available on this product.
12.5. Results of PBT and vPvB	assessment
	No data is available on this product.
12.6 Endocrine disrupting prope	rties
	No data is available on this product.
12.7 Other adverse effects	
	Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface
	water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	,
	Nonrefillable container. Do not reuse or refill this container.
	If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused
	product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation

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14.1. UN number

	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for user	
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk according to IMO instruments	
	The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

Chemical Inventories/Right-to-Know Lists:

T

Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

--International --.

Basel Convention (Hazardous Waste): Not applicable.

Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.

Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.

Mercosur Agreement: Applicable.

Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.

The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.

The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.

--Asia and the ASEAN Nations--.

Catalog of Hazardous Chemicals (China): [754, Sodium fluoride, CAS No. 7681-49-4 (<0.5%)]. Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision,

Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.

Air Pollution Control Law (Japan): Hazardous substance / Priority chemicals, [Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].

Chemical Substances Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Industrial Safety and Health Act, Dangerous Substances (Japan): Labeling/Notification required, [Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].

Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous substances at or above published reporting levels.

PRTR-SDS Law (Japan): Class I environmental release, [374, Sodium fluoride (fluorine

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

compounds), CAS No. 7681-49-4 (<0.5%)].

Soil Contamination Countermeasures Act (Japan): Class 2, [Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].

Water Pollution Control Law (Japan): Harmful substance, [Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].

Chemical Substances Subject to Permission (Korea): This product contains no hazardous substances at or above published reporting levels.

Restricted or Prohibited Substances (Korea): This product contains no hazardous substances at or above published reporting levels.

Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This product contains no hazardous substances at or above published reporting levels.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969):, All ingredients listed or exempt., No restrictions.

Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This product contains no hazardous substances at or above published reporting levels.

Hazardous Substances Act (Thailand): This product contains no hazardous substances at or above published reporting levels.

Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, Decree 113/2017/ND-CP: List of chemicals subject to conditional industrial production and trading, [Sodium fluoride, CAS No. 7681-49-4 (<0.5%)].

--Australia and New Zealand ---.

Australian Dangerous Goods Code: Not applicable.

Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt., No restrictions.

New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt., No restrictions.

--European Union (EU) and the United Kingdom (UK)--.

Authorization List (Annex XIV of REACH): This product contains no hazardous substances at or above published reporting levels.

Annex XVII for REACH: This product contains no hazardous substances at or above published reporting levels, No restrictions.

Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America --.

Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt., No restrictions

Toxic Substances Control Act (TSCA): All ingredients listed or exempt.

Massachusetts Right-to-Know Hazardous Substance List: This product contains no hazardous substances at or above published reporting levels.

New Jersey Worker and Community Right to Know Act: This product contains no hazardous substances at or above published reporting levels.

Pennsylvania Right to Know Law: This product contains no hazardous substances at or above published reporting levels.

Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.

California Prop 65: This product does not contain reportable substances at >0.0001% concentration.

SECTION 16: Other information

Red Stop Solution

Revision 7 Revision date 2023-03-16

Other information

Revision	This document differs from the previous version in the following areas:.			
	1 - Description.			
	3 - Description.			
	3 - Particle Characteristics.			
	7 - 7.2. Conditions for safe storage, including any incompatibilities.			
	9 - 9.2. Other information (Gas group).			
	11 - Acute toxicity.			
	15 - Chemical Inventories/Right-to-Know Lists:.			
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by			
	Rail (RID) and by Road (ADR).			
	CAS No.: Chemical Abstracts Service.			
	CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013			
	(Malaysia).			
	FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.			
	GHS: Globally Harmonized System.			
	HCS 2012: Hazard Communication Standard (2012 revision).			
	IATA: International Air Transport Association.			
	ICAO: International Civil Aviation Organization.			
	IMDG: International Maritime Dangerous Goods.			
	LD: Lethal dose.			
	OEL: Occupational exposure limit.			
	OSHA: U.S. Occupational Safety and Health Administration.			
	PEL: Permissible Exposure Limit.			
	REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.			
	STOT: Specific Target Organ Toxicity.			
	SVHC: Substance of very high concern.			
	US DOT: United States Department of Transportation.			
	VOC: Volatile Organic Compound.			
	WEL: Workplace Exposure Limit.			
Text of Hazard Statements in	Acute Tox. 3: H301 - Toxic if swallowed.			
Section 3	Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.			
	Eye Irrit. 2: H319 - Causes serious eye irritation.			
	Aquatic Acute 3: H402 - Harmful to aquatic life.			
Further information				
	DISCLAIMER: The information and recommendations set forth herein ("Information") are presented			

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Walnut WXB Extraction Buffer

Revision 2 **Revision date** 2023-11-20

1.1. Product identifier

Product name	Walnut WXB Extraction Buffer
Product code	24427 400000170

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.

1.3 Details of the supplier of the safety data sheet

1.3. Details of the supplier of the safety data sneet				
Company	Neogen Corporation			
Address	620 Lesher Place			
	Lansing MI 48912			
	USA			
Web	www.neogen.com			
Telephone	517-372-9200/800-234-5333			
Email	SDS@neogen.com			

1.4. Emergency telephone number

24 hours:

Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)

Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

Hazard pictograms



Signal Word

Hazard Statement

Warning

Skin Irrit. 2: H315 - Causes skin irritation.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary Statement:

Prevention

P264 - Wash thoroughly after handling.

Precautionary Statement:

P302+P352 - IF ON SKIN: Wash with plenty of water/ .

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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2.2. Label elements			
	P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.		
2.3. Other hazards			
Other hazards	Contains material(s) which may be harmful if swallowed.		
SECTION 2: Composition/information on ingradients			

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc.	Classification
					(%w/w)	
Magnesium nitrate		10377-60-3	233-826-7		1 - 10%	Ox. Sol. 2: H272; Skin Irrit. 2:
						H315; Eye Irrit. 2: H319;
						STOT SE 3: H335;

Description

Inhalation

Concentrations listed are not product specifications.

Particle Characteristics

Not applicable.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops,

SECTION 4: First aid measures

4.1. Description of first aid measures

	provide artificial respiration. Seek medical attention if irritation or symptoms persist.		
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention		
	if irritation or symptoms persist.		
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or		
	symptoms persist.		
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth		
	thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention		
	if you feel unwell.		
A.C. Marking advantage and effects both and address			

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.	
Eye contact	Causes serious eye irritation.	
Skin contact	Causes skin irritation.	
Ingestion	Ingestion may cause nausea and vomiting.	

4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

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Revision date 2023-11-20

		Revision date 2023-11-20	
5.2. Special hazards arising fror	n the substance or mixture		
	Irritant. Product does not support combus ground water, water course or sewage sy	stion. Do not allow undiluted product to be released to vstem.	
5.3. Advice for firefighters			
	Do not breathe vapor or spray mist. Wear chemical-protective clothing.	r self-contained breathing apparatus and	
SECTION 6: Accidental rele	ase measures		
6.1. Personal precautions, prote	ective equipment and emergency procedure	s	
	Use as appropriate: Protective equipmen working area. Avoid prolonged or repeate	t, Protective clothing. Ensure adequate ventilation of the ed exposure.	
6.2. Environmental precautions			
	Prevent further spillage if safe. Clean spil into surface water. Do not let product con	llage area thoroughly with plenty of water. Do not flush staminate subsoil.	
6.3. Methods and material for co	ontainment and cleaning up		
	Absorb spillage to prevent material dama Do not contaminate water by cleaning of	ge. Clean spillage area thoroughly with plenty of water. equipment or disposal of wastes.	
6.4. Reference to other sections			
	See Section(s) 2, 8, and 13 for further inf	ormation.	
SECTION 7: Handling and s	torage		
7.1. Precautions for safe handlin	ng		
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.		
7.2. Conditions for safe storage	including any incompatibilities		
	Store at temperatures between 2 °C and Store in correctly labelled containers. Kee food, or feed by storage or disposal.	30 °C. Follow label instructions. ep container tightly closed. Do not contaminate water,	
7.3. Specific end use(s)			
	See Section(s) 1.2 for further information		
Further information			
	Refer to product label and/or package ins	sert for additional information. Follow label instructions.	
SECTION 8: Exposure contr	rols/personal protection		
8.1. Control parameters			
Exposure Limit Values			
Sodium hydroxide	ACGIH TLV TWA: -	ACGIH TLV STEL: C 2 mg/m³	
	Notations: -	OSHA PEL 8hr TWA ppm: -	
	OSHA PEL 8hr TWA mg m3: 2	Skin Designation: -	
	NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:	
	моэттестопштот ррш.	MICOTTALE TO HIIIT OT HIS IIIO.	

8.2. Exposure controls

Revision 2 Revision date 2023-11-20

8.2. Exposure controls

OIL EXPOSE OF STREET				
Appropriate engineering controls	Ensure adequate ventilation of the working area.			
Individual protection measures	Use as appropriate: Protective equipment.			
Eye / face protection	Use as appropriate: Suitable eye protection.			
Skin protection - Hand protection	Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.			
Skin protection - Other	Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.			
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.			
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.			

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Color Cloudy	
Odor Odorless	
Odor threshold No data available	
pH 7 - 7.4	
Melting point No data available	
Freezing Point No data available	
Initial boiling point No data available	
Flash point No data available	
Evaporation rate No data available	
Flammability limits Not applicable.	
Vapor pressure No data available	
Relative Vapour Density No data available	
Density / Relative Density 1	
Fat Solubility No data available	
Partition coefficient (P) No data available	
Autoignition temperature No data available	
Viscosity No data available	
Explosive properties No data available	
Oxidizing properties No data available	
Solubility Soluble in water	

9.2. Other information

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9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Keep away from extreme temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values.
	No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs.
	No components at >0.01% are listed in the National Toxicology Program (NTP) Report on
	Carcinogens.
	Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

11.1.2. Mixtures

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Revision date 2023-11-20

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11.1.2. Mixtures	
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological information	i
	No data available
11.1.5. Hazard Class	·
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
11.1.7. Information on likely rout	tes of exposure
	Eye contact. Skin contact. Ingestion. Inhalation.
11.1.8. Symptoms related to the	physical, chemical and toxicological characteristics
	See Section(s) 4.2 for further information.
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure
	See Section(s) 4.2 for further information.
11.1.10. Interactive effects	
	No data available.
11.1.11. Absence of specific dat	a
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substan	ce information
	See Section(s) 3 for further information.
11.1.13. Other information	·
	No data available.
11.2 Information on other hazard	ds
	No data available.
SECTION 12: Ecological info	ormation
12.1. Toxicity	
- I - I - I - I - I - I - I - I - I - I	No data available
12.2. Persistence and degradab	
	No data is available on this product.
12.3. Bioaccumulative potential	1
	No data is available on this product.
12.4. Mobility in soil	1 22 2
	No data is available on this product.
12.5. Results of PBT and vPvB	'
orricoano orribirana vi VD	No data is available on this product.
12.6 Endocrine disrupting prope	'
12.0 Endooning disrupting prope	No data is available on this product.
	The data is available on this product.

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12.7 Other adverse effects	
	Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal cons	siderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	•
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	The state of the
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	·
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	er
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk	according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory in	formation
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	Contact SDS@neogen.com for additional information. Please specify country or region with your request.
LISTS:	California Prop 65: This product does not contain reportable substances at >0.0001% concentration.
Inventories	

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Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Sodium hydroxide (Sodium hydroxide	Υ	N	N	N	N	N	Υ	N	N
(Na(OH)))									

SECTION 16: Other information

Other information

This document differs from the previous version in the following areas:. 2 - Precautionary Statement: Response. 4 - Eye contact. 4 - Skin contact. 5 - 5.2. Special hazards arising from the substance or mixture. 7 - 7.2. Conditions for safe storage, including any incompatibilities. 8 - 8.1. Control parameters. 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.2. Other information (Gas group).

Acronyms

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).

CAS No.: Chemical Abstracts Service.

11 - Skin corrosion/irritation.11 - Serious eye damage/irritation.

CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).

FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.

GHS: Globally Harmonized System.

HCS 2012: Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods.

LD: Lethal dose.

OEL: Occupational exposure limit.

OSHA: U.S. Occupational Safety and Health Administration.

PEL: Permissible Exposure Limit.

REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.

STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern.

US DOT: United States Department of Transportation.

VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.

Text of Hazard Statements in Section 3

Ox. Sol. 2: H272 - May intensify fire; oxidiser.

Skin Irrit. 2: H315 - Causes skin irritation.

Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.

Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF

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Walnut WXB Extraction Buffer

Revision 2
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Further information	
	PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Wash Buffer Concentrate, 25X

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
Product name Product code S428, 24218, 24269, 700002567, 400000123, 400000128 Product Use
Product code 1.2. Relevant identified uses of the substance or mixture and uses advised against Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit. 1.3. Details of the supplier of the safety data sheet Company Address Neogen Corporation 620 Lesher Place Lansing MI 48912 USA Web Telephone 517-372-9200/800-234-5333
1.2. Relevant identified uses of the substance or mixture and uses advised against Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit. 1.3. Details of the supplier of the safety data sheet Company Address Neogen Corporation 620 Lesher Place Lansing MI 48912 USA Web Telephone 517-372-9200/800-234-5333
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components from one kit with any other kit. 1.3. Details of the supplier of the safety data sheet Company Address Neogen Corporation 620 Lesher Place Lansing MI 48912 USA Web www.neogen.com 517-372-9200/800-234-5333
Company Neogen Corporation Address 620 Lesher Place Lansing MI 48912 USA Web www.neogen.com Telephone 517-372-9200/800-234-5333
Address 620 Lesher Place
Lansing MI 48912 USA Web www.neogen.com Telephone 517-372-9200/800-234-5333
Telephone 517-372-9200/800-234-5333
· · · · · · · · · · · · · · · · · · ·
Email SDS@neogen.com
1.4. Emergency telephone number
24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
2.1.2. Classification - GHS Based on available data, this product is not classified as hazardous.
2.2. Label elements
Hazard Statements No Significant Hazard
2.3. Other hazards
Other hazards Contains material(s) which may damage fertility or the unborn child. Contains substance(s) which are hazardous to the environment.
SECTION 3: Composition/information on ingredients
Description
Concentrations listed are not product specifications.
Particle Characteristics
Not applicable.

Further information

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	Revision date 2023-11-20
Further information	
	Full text of Hazard Statements listed in this Section is provided in Section 16.
SECTION 4: First aid meas	sures
4.1. Description of first aid me	asures
Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms	and effects, both acute and delayed
Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.
4.3. Indication of any immedia	te medical attention and special treatment needed
	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising fr	om the substance or mixture
	Contains substance(s) which are hazardous to the environment. Do not allow undiluted product to be released to ground water, water course or sewage system.
5.3. Advice for firefighters	
	Do not breathe vapor or spray mist. Wear suitable respiratory equipment when necessary.
SECTION 6: Accidental re	ease measures
	tective equipment and emergency procedures
	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.
6.2. Environmental precaution	s
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
6.3. Methods and material for	containment and cleaning up
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Reference to other section	
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and	storage
SESTION 7. Hariding and	o.o. ago

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7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact
with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure
adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or
disposal of wastes. Use as appropriate: Protective clothing.
Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures between 2 °C and 8 °C. Follow label instructions. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits known.

8.2. Exposure controls







Appropriate engineering controls

Individual protection measures Eye / face protection

Use as appropriate: Protective equipment. Use as appropriate: Suitable eye protection.

Ensure adequate ventilation of the working area.

Skin protection - Hand

Use as appropriate: Chemical-resistant gloves made of any waterproof material.

protection

Use as appropriate: Protective clothing

Skin protection - Other Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Occupational exposure controls

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Colorless
Odor	Odorless/Slight
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	No data available
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	Not applicable.
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	No data available
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Keep away from extreme temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

Revision 6 Revision date 2023-11-20

11.1 Information on hazard classes

11.1 Information on nazard clas	
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Listed by the International Agency for Research on Cancer (IARC) as a Group 2 substance: suspected of being a human carcinogen, [Thimerosal (mercury compounds), CAS No. 54-64-8 (<0.05%)]. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	Contains material(s) which may damage fertility or the unborn child.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of
exposure	hypersensitivity (difficult breathing, coughing, asthma) are possible.
11.1.2. Mixtures	[
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological information	<u>-</u> 1
	No data available
11.1.5. Hazard Class	
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
11.1.7. Information on likely rout	tes of exposure
	Eye contact. Skin contact. Ingestion. Inhalation.
11.1.8. Symptoms related to the	physical, chemical and toxicological characteristics
	See Section(s) 4.2 for further information.
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure
	See Section(s) 4.2 for further information.
11.1.10. Interactive effects	
	No data available.
11.1.11. Absence of specific dat	ta
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substan	nce information
	See Section(s) 3 for further information.

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Wash Buffer Concentrate, 25X

Revision Revision date 2023-11-20

	Revision date 2023-11-20
11.1.13. Other information	
	No data available.
11.2 Information on other hazards	3
	No data available.
SECTION 12: Ecological infor	mation
12.1. Toxicity	
	No data available
12.2. Persistence and degradabili	ity
	No data is available on this product.
12.3. Bioaccumulative potential	
	No data is available on this product.
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvB as	ssessment
	No data is available on this product.
12.6 Endocrine disrupting propert	iies
	No data is available on this product.
12.7 Other adverse effects	
	Contains substance(s) which are hazardous to the environment. Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal consid	derations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport inform	mation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	-
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	

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14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7 Maritime Transport in bulk according to IMO instruments		
	The product is not classified as dangerous for carriage.	
OFFICIAL P. L. L. C. W.		

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical	Contact SDS@neogen.com for additional information. Please specify country or region with your
Inventories/Right-to-Know	request.
Lists:	
	California residents please note.
	WARNING: This product can expose you to chemicals, including Thimerosal (mercury
	compounds), CAS No. 54-64-8 (<0.05%), which is/are known to the State of California to cause
	birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:.
	7 - 7.2. Conditions for safe storage, including any incompatibilities.
	9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).
	CAS No.: Chemical Abstracts Service.
	CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).
	FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.
	GHS: Globally Harmonized System.
	HCS 2012: Hazard Communication Standard (2012 revision).
	IATA: International Air Transport Association.
	ICAO: International Civil Aviation Organization.
	IMDG: International Maritime Dangerous Goods.
	LD: Lethal dose.
	OEL: Occupational exposure limit.
	OSHA: U.S. Occupational Safety and Health Administration.
	PEL: Permissible Exposure Limit.
	REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.
	STOT: Specific Target Organ Toxicity.
	SVHC: Substance of very high concern.
	US DOT: United States Department of Transportation.
	VOC: Volatile Organic Compound.
	WEL: Workplace Exposure Limit.
Further information	

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect

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Further information

the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Extraction Additive (VIP)

Revision 4
Revision date 2023-11-20

	Revision date 2023-11-20
SECTION 1: Identification of	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Extraction Additive (VIP)
CAS No.	9003-39-8
EC No.	618-363-4
Product code	22198, 400000103
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.
1.3. Details of the supplier of the	e safety data sheet
Company	Neogen Corporation
Address	620 Lesher Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com
1.4. Emergency telephone num	ber
	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
SECTION 2: Hazards identif	ication
2.1. Classification of the substan	nce or mixture
2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.
2.2. Label elements	
Hazard Statements	No Significant Hazard
2.3. Other hazards	
Other hazards	Contains material(s) which may. Dust may be irritating if inhaled.
SECTION 3: Composition/in	formation on ingredients
Description	

No components need to be disclosed according to the applicable regulations.

Concentrations listed are not product specifications.

Particle Characteristics

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raticle Characteristics	No data available.
	No data available.
	Full to staff language Obstance on the listed in this Continue is promitted in Continue 40
	Full text of Hazard Statements listed in this Section is provided in Section 16.
SECTION 4: First aid me	easures
4.1. Description of first aid n	neasures
Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptor	ns and effects, both acute and delayed
Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.
4.3. Indication of any immed	liate medical attention and special treatment needed
	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
SECTION 5: Firefighting	measures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising	from the substance or mixture
	Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system.
5.3. Advice for firefighters	
	Do not breathe dust or vapor. Wear self-contained breathing apparatus and chemical-protective clothing.
SECTION 6: Accidental r	
	rotective equipment and emergency procedures
	Avoid formation of dust. Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.
6.2. Environmental precaution	ons
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
6.3. Methods and material fo	or containment and cleaning up
	Avoid formation of dust. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Deference to other cost	

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6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing.

Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures between 2 °C and 30 °C. Follow label instructions.

Store in correctly labelled containers. Keep container tightly closed. Protect from moisture. Do not contaminate water, food, or feed by storage or disposal.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits known.

8.2. Exposure controls









Appropriate engineering controls

Individual protection measures

Eye / face protection Skin protection - Hand

Skin protection - Hand protection

Skin protection - Other

Respiratory protection

Occupational exposure

Ensure adequate ventilation of the working area.

Use as appropriate: Protective equipment.

Use as appropriate: Suitable eye protection.

Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.

Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.

In case of insufficient ventilation, wear suitable respiratory equipment. Dust may be irritating if

inhaled.

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Further information

controls

Refer to product label for additional PPE requirements and recommendations. Follow label instructions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Powder
Color	Beige
Odor	Odorless/Slight
Odor threshold	No data available
рН	5 - 8
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Vapor pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	No data available
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	Not applicable.
Explosive properties	No data available
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	Not applicable.
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Keep away from extreme temperatures. Protect from moisture.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

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11.1 Information on hazard classes

11.1 Illioillauon on hazaru clas	
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values.
	Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance:
	evidence does not support the substance as a human carcinogen, [Polyvinyl pyrrolidone, CAS No.
	9003-39-8]. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on
	Carcinogens.
	Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of
exposure	hypersensitivity (difficult breathing, coughing, asthma) are possible.
11.1.2. Mixtures	
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological information	1
	No data available
11.1.5. Hazard Class	
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	
	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures.
44.4.7.1.6. (111.1	See Section 15 for regulatory citations.
11.1.7. Information on likely rout	
44400 4 14 14 11	Eye contact. Skin contact. Inhalation. Ingestion.
11.1.8. Symptoms related to the	physical, chemical and toxicological characteristics
4440 D. I. II. II.	See Section(s) 4.2 for further information.
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure
	See Section(s) 4.2 for further information.
11.1.10. Interactive effects	T
	No data available.
11.1.11. Absence of specific data	a -
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substan	ce information
	See Section(s) 3 for further information.

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11.1.13. Other information	
	No data available.
11.2 Information on other hazard	ds
	No data available.
SECTION 12: Ecological info	ormation
12.1. Toxicity	
	No data available
12.2. Persistence and degradab	ility
	No data is available on this product.
12.3. Bioaccumulative potential	
	No data is available on this product.
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvB	assessment
	No data is available on this product.
12.6 Endocrine disrupting prope	rties
	No data is available on this product.
12.7 Other adverse effects	
	Specific test data for the substance or mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
Further information	
	Refer to product label and/or package insert for additional information. Follow label instructions.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es	

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14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	eer
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk	according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

Contact SDS@neogen.com for additional information. Please specify country or region with your

California Prop 65: This product does not contain reportable substances at >0.0001%

SECTION 16: Other information

request.

concentration.

Inventories/Right-to-Know

Other information

Chemical

Lists:

Other information	
Revision	This document differs from the previous version in the following areas:.
	1 - Description.
	7 - 7.2. Conditions for safe storage, including any incompatibilities.
	9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).
	9 - 9.2. Other information (Gas group).
	11 - Carcinogenicity.
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by
	Rail (RID) and by Road (ADR).
	CAS No.: Chemical Abstracts Service.
	CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013
	(Malaysia).
	FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.
	GHS: Globally Harmonized System.
	HCS 2012: Hazard Communication Standard (2012 revision).
	IATA: International Air Transport Association.
	ICAO: International Civil Aviation Organization.
	IMDG: International Maritime Dangerous Goods.
	LD: Lethal dose.
	OEL: Occupational exposure limit.
	OSHA: U.S. Occupational Safety and Health Administration.
	PEL: Permissible Exposure Limit.
	REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.
	STOT: Specific Target Organ Toxicity.
	SVHC: Substance of very high concern.
	US DOT: United States Department of Transportation.
	VOC: Volatile Organic Compound.
	WEL: Workplace Exposure Limit.

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Further information

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