

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). Articles, and otherwise immobilized and inaccessible chemicals, do not have a Safety Data Sheet in this packet.
Kit Components:
For product information, please contact your Neogen Corporation Representative. For further information regarding this SDS, please contact SDS@neogen.com.
רטו דערנוופר ווווסרווומנוטור רפצמרעוווצ נוווא טטט, piease contact <u>שטטשוופטצפוו.com</u> .



SAFETY DATA SHEET

according to DENR Administrative order N°2015-09 and GHS

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Walnut Standards

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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		
Company name	Neogen Corporation	
Address	620 Lesher Place	
	Lansing MI 48912	
	USA	
Web	www.neogen.com	
Telephone number	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	pici	togra	ams
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Signal Word

Hazard Statement

Warning

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.		

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

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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 vapour or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.		
SECTION 6: Accidental relea	ase measures		
6.1. Personal precautions, protect	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	ntainment 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 st	torage		
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 contro	ols/personal protection		
8.1. Control parameters			
	No occupational exposure limits known.		
8.2. Exposure controls			

Ensure adequate ventilation of the working area.

8.2.1. Appropriate engineering

controls

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8.2. Exposure control	S
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8.2.2. Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Handprotection	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.
Courtle on informe ation	

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Odourless
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
Oxidising properties	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Odour threshold	No data available
Flammability (solid, gas)	Not applicable.
Explosive properties	Not applicable.
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

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10.1. Reactivity			
	Stable under normal conditions.		
10.2. Chemical stability			
·	Stable under normal conditions.		
10.3. Possibility of hazardous reactions			
10.5. Possibility of flazardous re			
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.		
10.4. Conditions to avoid	pressure are not expected.		
10.4. Conditions to avoid	T.,		
Keep away from extreme temperatures.			
10.5. Incompatible materials			
	No data available.		
10.6. Hazardous decomposition	products		
	Carbon oxides.		
SECTION 11: Toyinglagical	information		
SECTION 11: Toxicological			
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 Sect			
Skin corrosion/irritation	May cause irritation to skin. May cause dermatitis.		
Serious eye damage/irritation	May cause irritation to eyes.		
Respiratory or skin sensitisation Germ cell mutagenicity May cause allergic reactions in susceptible people. May cause sensitisation by skin or sensitisation 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 STOT-repeated exposure Aspiration hazard May cause allergy or asthma symptoms or breathing difficulties if inhaled. No Significant Hazard. No Significant Hazard.			
		Repeated or prolonged	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.
		exposure 11.1.2. Mixtures	Trypersensitivity (unificult preatiting, coughing, astilina) are possible.
11.1.2. IVIIXIUI'ES	Ta a " ()a((" " " " " " " " " " " " " " " " " "		
	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			
	No data available		
	,		

See Section(s) 2 and 14 for further information.

11.1.6. Classification Criteria

11.1.5. Hazard Class

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11.1.6. Classification Criteria	
	Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
11.1.7. Information on likely rou	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 da	ta
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substar	nce information
	See Section(s) 3 for further information.
11.1.13. Other information	
	No data available.
11.2 Information on other hazar	ds
	No data available.
SECTION 12: Ecological inf	ormation
12.1. Toxicity	
	No data available
12.2. Persistence and degradat	· pility
	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	

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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.		
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	<u> </u>		
	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 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 in			
•	mental regulations/legislation specific for the substance or mixture		
Regulations	According to DENR Administrative order N°2015-09 and GHS.		
Chemical Inventories/Right-to-Know Lists:	Contact SDS@neogen.com for additional information. Please specify country or region with your request.		
LISTO.	California Proposition 65: This product does not contain reportable substances at >0,0001% concentration.		
SECTION 16: Other informa	tion		
Other information			
Revision	This document differs from the previous version in the following areas:.		
1 (0 1) (0 1)	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.		
	1 11 Filip corrector/unitation		

11 - Skin corrosion/irritation.

Rail (RID) and by Road (ADR).

11 - Respiratory or skin sensitisation.

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

ChemSoft EH&S

Acronyms

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Other information

CLASS: Classification, Labelling, 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: U.S. Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation. 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, Authorisation, 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.

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Walnut Conjugate

Revision Revision date 2023-11-20

SECTION 1: Identification of the substance/mixture and of the company/underta

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

Company name	Neogen Corporation
Address	620 Lesher Place
	Lansing MI 48912
	USA
Web	www.neogen.com
Telephone number	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; Resp. Sens. 1: H334;
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2.2. Label elements

Hazard pictograms



Signal Word

Danger **Hazard Statement**

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 effects, both acute and delayed
Ingestion	Ingestion may cause nausea and vomiting.
4.3. Indication of any immediate	e 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 me	easures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising fro	m 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 vapour or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.
SECTION 6: Accidental rele	ease measures
6.1. Personal precautions, prot	ective 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 o	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	s
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and	storage
7.1. Precautions for safe handle	ing
	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	e, 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 conf	trols/personal protection

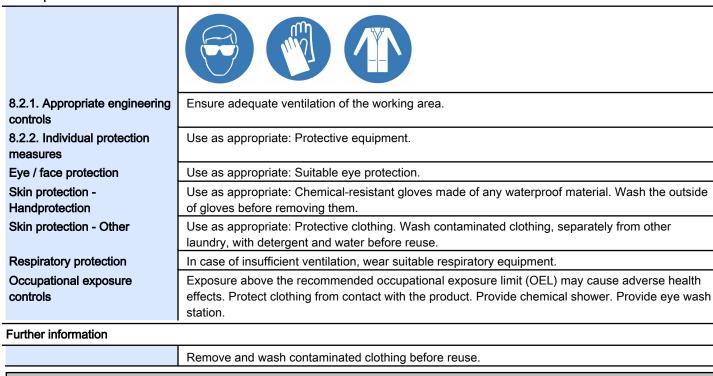
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8.1. Control parameters

8.1.1. 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: -
Sodium azide (as Hydrazoic acid vapor)	ACGIH TLV TWA: -	ACGIH TLV STEL: C 0.11 ppm
	Notations: A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: -	Skin Designation: -
Sucrose	ACGIH TLV TWA: 10 mg/m³	ACGIH TLV STEL: -
	Notations: A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 15	Skin Designation: -

8.2. Exposure controls



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

	De la
Appearance	Liquid
Colour	Colourless
Odour	Odourless
рН	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
Oxidising properties	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Odour threshold	No data available
Flammability (solid, gas)	Not applicable.
Explosive properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

10.1. Reactivity

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

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
Revision date 2023-11-20

11.1 Information on hazard classes

11.1 Information on nazard clas	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. May cause dermatitis.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people. May cause sensitisation 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	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.
44.4.4. Tarda da ala di lafama attar	· · · · · · · · · · · · · · · · · · ·
11.1.4. Toxicological Information	
	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 Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
11.1.7. Information on likely rou	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 da	ta
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substar	ce information
	See Section(s) 3 for further information.
	•

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Revision date 2023-11-20

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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 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.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
1 1 11 0	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	•

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14.5. E	Environi	mental	hazar	ds
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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:

According to DENR Administrative order N°2015-09 and GHS.

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

California Proposition 65: This product does not contain reportable substances at >0,0001% concentration.

SECTION 16: 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 sensitisation.
- 12 12.1. Toxicity.
- 15 Labelling.
- 15 Hazard Statement.
- 15 Safety phrases.

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, Labelling, 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: U.S. Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation.

IMDG: International Maritime Dangerous Goods.

LD: Lethal dose.

OEL: Occupational exposure limit.

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

PEL: Permissible Exposure Limit.

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Other information REACH: Registration, Evaluation, Authorisation, 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** Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Section 3 EUH032 - Contact with acids liberates very toxic gas. Acute Tox. 2: H300 - Fatal if swallowed. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aguatic 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. 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, EXPRESS 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 DENR Administrative order N°2015-09 and GHS

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K-Blue® Advanced Plus TMB Substrate

Revision date 2023-03-16

	Revision date 2023-03-16
SECTION 1: Identification of	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	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 name	Neogen Corporation
Address	620 Lesher Place Lansing MI 48912
	USA
Web	www.neogen.com
Telephone number	517-372-9200/800-234-5333
Email	SDS@neogen.com
1.4. Emergency telephone nun	nber
	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 ident	fication
2.1. Classification of the substa	nnce or mixture
2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.
2.2. Label elements	
Hazard Statement	No Significant Hazard
2.3. Other hazards	
Other hazards	Contains material(s) which may be harmful if swallowed.
SECTION 3: Composition/ii	nformation on ingredients

Revision 2 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
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	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

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 vapour or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.

Revision 2 Revision date 2023-03-16

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SECTION 6: Accidental release	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	working area. Avoid prolonged of repeated exposure.
o.z. Environmental precautions	December of the second
	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	ntainment 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 st	torage
7.1. Precautions for safe handlin	
	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 contro	ols/personal protection
8.1. Control parameters	olo, pot certai preceduori
o. r. Control parameters	No consistent our cours limits tracus
8.2. Exposure controls	No occupational exposure limits known.
o.z. Exposure controls	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Handprotection	Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.

Revision 2 Revision date 2023-03-16

8.2.	Exposure	contro	ls
------	----------	--------	----

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.
Eurther information	·

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear/Colourless
Odour	Odourless
Odour 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 (solid, gas)	Not applicable.
Vapour 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.
Oxidising 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.

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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	,
	No data available.
10.6. Hazardous decomposition	products
	Carbon oxides.
OFOTION 44: Torioglasiaal	
SECTION 11: Toxicological	
11.1 Information on hazard clas	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 sensitisation	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	1
	No data available
11.1.5. Hazard Class	1
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	1 000 000 (on 2 and 17 for farmer information.
TITLO. CIASSINGUIOTI OTICCIA	Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
11.1.7. Information on likely rout	
	<u>·</u>

Revision 2 Revision date 2023-03-16

	Revision date 2023-03-16
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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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.
rmation
The product is not classified as dangerous for carriage.
The product is not classified as dangerous for carriage.
)
The product is not classified as dangerous for carriage.
The product is not classified as dangerous for carriage.
The product is not classified as dangerous for carriage.
er
The product is not classified as dangerous for carriage.
according to IMO instruments
The product is not classified as dangerous for carriage.
formation
mental regulations/legislation specific for the substance or mixture
According to DENR Administrative order N°2015-09 and GHS.
International
Basel Convention (Hazardous Waste): Not applicable. Chamical Weapons Convention (OPCW): This product contains no hazardous substances at or

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

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

Revision 2 Revision date 2023-03-16

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

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)--.

Authorisation 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.

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

Revision 2 Revision date 2023-03-16

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

California Proposition 65: This product does not contain reportable substances at >0,0001% concentration.

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, Labelling, 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: U.S. Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation. 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, Authorisation, 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

Flam. Liq. 4: H227 - Combustible liquid.

Skin Irrit. 2: H315 - Causes skin 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 use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED

Revision 2 Revision date 2023-03-16

Further information	
	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 DENR Administrative order N°2015-09 and GHS

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Red Stop Solution

Revision 7 Revision date 2023-03-16

Print date 2023-03-16

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Red Stop Solution	
Product code	301210, 301471, 301473, 301474, 301475, 301476	
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 name	Neogen Corporation	
Address	620 Lesher Place	
	Lansing MI 48912	
	USA	
Web	www.neogen.com	
Telephone number	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 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 Statement	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 '	4 O.	70	n	\sim
	12	ızı	ZU	wo

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 vapour or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

working area. Avoid prolonged or repeated exposure.	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the
monanty areas, trota protesting or repeated exposures.	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







8.2.1. Appropriate engineering controls

- - - - . ..

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Use as appropriate: Protective equipment.

Eye / face protection

Use as appropriate: Suitable eye protection.

Skin protection - Handprotection

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.

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8.2.	Exposure	contro	S
------	----------	--------	---

O.Z. Exposure controls	
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

Appearance	Liquid
Colour	Clear/Red
Odour	Characteristic
Odour 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 (solid, gas)	Not applicable.
Vapour 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.
Oxidising 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		

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10.3. Possibility of hazardous re	eactions			
	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	1			
Total Hazardodo docomposition	Carbon oxides.			
SECTION 11: Toxicological	information			
11.1 Information on hazard clas	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 sensitisation	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				
	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 Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.			
11.1.7. Information on likely routes of exposure				
	Eye contact. Skin contact. Ingestion. Inhalation.			

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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	
	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.

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	Revisi	on date	2023-03-16
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 use	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 information

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

Regulations

Chemical

Inventories/Right-to-Know Lists:

According to DENR Administrative order N°2015-09 and GHS.

--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.

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

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

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)--.

Authorisation 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 Proposition 65: This product does not contain reportable substances at >0,0001% concentration.

Red Stop Solution

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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. 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:. ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by **Acronyms** Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. CLASS: Classification, Labelling, 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: U.S. Hazard Communication Standard (2012 revision). IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation. 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, Authorisation, 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.

Eye Irrit. 2: H319 - Causes serious eye irritation. Aquatic Acute 3: H402 - Harmful to aquatic life.

Further information

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SAFETY DATA SHEET

according to DENR Administrative order N°2015-09 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	24437 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 name	Neogen Corporation			
Address	620 Lesher Place			
	Lansing MI 48912			
	USA			
Web	www.neogen.com			
Telephone number	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 Irrit. 2: H315; Eye Irrit. 2: H319;
-----------------------------	--

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:

Precautionary Statement:

Prevention

P264 - Wash thoroughly after handling.

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 3: Composition/information on ingredients		

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.	
4.0. Most important symptoms and affects, both south and delayed		

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-		
5.2. Special hazards arising fror	n the substance or mixture			
	Irritant. Product does not support combustic ground water, water course or sewage systematics.	on. Do not allow undiluted product to be released to em.		
5.3. Advice for firefighters				
	Do not breathe vapour or spray mist. Wear chemical-protective clothing.	self-contained breathing apparatus and		
SECTION 6: Accidental rele	ase measures			
6.1. Personal precautions, prote	ective equipment and emergency procedures			
	T	Protective clothing. Ensure adequate ventilation of the exposure.		
6.2. Environmental precautions				
	Prevent further spillage if safe. Clean spillage into surface water. Do not let product contains	ge area thoroughly with plenty of water. Do not flush minate subsoil.		
6.3. Methods and material for co	ontainment and cleaning up			
	Absorb spillage to prevent material damage Do not contaminate water by cleaning of eq	e. Clean spillage area thoroughly with plenty of water. puipment or disposal of wastes.		
6.4. Reference to other sections				
	See Section(s) 2, 8, and 13 for further inform	mation.		
SECTION 7: Handling and s	torage			
7.1. Precautions for safe handlir	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. 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 inser	t for additional information. Follow label instructions.		
SECTION 8: Exposure contr	rols/personal protection			
8.1. Control parameters	or porton proton or			
Johan paramotoro				
8.1.1. 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: -		
3.2. Exposure controls				

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8.2. Exposure controls



8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection

Use as appropriate: Protective equipment.

measures

Use as appropriate: Suitable eye protection.

Eye / face protection Skin protection -Handprotection

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

Appearance	Liquid			
Colour	Cloudy			
Odour	Odourless			
Odour 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	o data available			
Evaporation rate	lo data available			
Flammability (solid, gas)				
Vapour pressure				
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			
Oxidising 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 sensitisation	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.			

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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	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 Harmonised 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.
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	prmation
12.1. Toxicity	
	No data available
12.2. Persistence and degradab	I was assessed.
	No data is available on this product.
12.3. Bioaccumulative potential	The data is a valuable on time product.
Disassamanaro potential	No data is available on this product.
12.4. Mobility in soil	1 The data is diffillable of the product
II III DON	No data is available on this product.
12.5. Results of PBT and vPvB	<u>'</u>
12.0. I COURS OF I DT AIR VEVD	No data is available on this product.
12.6 Endocrine disrupting prope	'
12.0 Endooning disrupting prope	
	No data is available on this product.

Revision 2

12.7 Other adverse effects	Revision date 2023-11-2
12.7 Other adverse effects	Specific test data for the mixture is not available.
	Specific test data for the mixture is not available.
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
OFOTION 42: Diamond cons	
SECTION 13: Disposal cons	Iderations
13.1. Waste treatment methods	T
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	T
	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	
	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.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
4.2. UN proper shipping name	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	The product is not classified as dangerous for carriage.
4.3. Transport hazard class(es	•
The Halleport Hazara state (es	The product is not classified as dangerous for carriage.
14.4. Packing group	The production of calculation as a sample calculation and calc
	The product is not classified as dangerous for carriage.
 14.5. Environmental hazards	The production of classification and analysis can be called as
. Hor Environmental Hazardo	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	
The openial productions for de	The product is not classified as dangerous for carriage.
4.7 Maritime Transport in bulk	•
14.7 Manume Transport in buik	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory inf	
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Regulations	According to DENR Administrative order N°2015-09 and GHS.
Chemical Inventories/Right-to-Know	Contact SDS@neogen.com for additional information. Please specify country or region with your request.
Lists:	request.
	California Proposition 65: This product does not contain reportable substances at >0,0001% concentration.
SECTION 16: Other informa	tion
Other information	
Revision	This document differs from the previous version in the following areas:.
	2 - Precautionary Statement: Response.
	4 - Eye contact. 4 - Skin contact.

Revision 2 Revision date 2023-11-20

Other information				
	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).			
	11 - Skin corrosion/irritation.			
	11 - Serious eye damage/irritation.			
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, Labelling, 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: U.S. Hazard Communication Standard (2012 revision).			
	IATA: International Air Transport Association.			
	ICAO: International Civil Aviation Organisation.			
	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, Authorisation, 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	Ox. Sol. 2: H272 - May intensify fire; oxidiser.			
Section 3	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, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED			

resulting from the use of this product.

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



SAFETY DATA SHEET

according to DENR Administrative order N°2015-09 and GHS

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Wash Buffer Concentrate, 25X

Revision 6 Revision date 2023-11-20

	Revision date 2023-11-			
SECTION 1: Identification of	of the substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product name	Wash Buffer Concentrate, 25X			
Product code	8428, 24218, 24269, 700002567, 400000123, 400000128			
1.2. Relevant identified uses o	f 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	ne safety data sheet			
Company name	Neogen Corporation			
Address	620 Lesher Place			
	Lansing MI 48912			
Web	USA			
Telephone number	www.neogen.com 517-372-9200/800-234-5333			
Email	SDS@neogen.com			
1.4. Emergency telephone nur	1 2 2			
	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 ident	ification			
2.1. Classification of the substa	ance or mixture			
2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.			
2.2. Label elements				
Hazard Statement	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/i	nformation on ingredients			
Description				
	Concentrations listed are not product specifications.			
Particle Characteristics	•			
	Not applicable.			

Further information

Revision 6 Revision date 2023-11-20

Further information	Revision date 2023-11-20		
	Full text of Hazard Statements listed in this Section is provided in Section 16.		
SECTION 4: First aid meas	ures		
4.1. Description of first aid mea	sures		
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	e 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 me	easures		
5.1. Extinguishing media			
	Use extinguishing media appropriate to the surrounding fire conditions.		
5.2. Special hazards arising fro	m 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 vapour or spray mist. Wear suitable respiratory equipment when necessary.		
SECTION 6: Accidental rele	ease measures		
6.1. Personal precautions, prote	ective 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 o	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 section	S		
	See Section(s) 2, 8, and 13 for further information.		
SECTION 7: Handling and	storage		
CLOTION 7. Handling and 3	,ugo		

Revision 6
Revision date 2023-11-20

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







8.2.1. Appropriate engineering controls

8.2.2. Individual protection measures

Eye / face protection

Skin protection -

Handprotection
Skin 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.

Use as appropriate: Protective clothing.

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

Revision 6 Revision date 2023-11-20

9.1. Information on basic physical and chemical properties

Colour Clear/Colourless Odour threshold pH No data available Melting point Freezing Point Initial boiling point Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density / Relative Density / Relative Density Partition coefficient (P) Autoignition temperature Viscosity Codour threshold pd data available No data available	A	re, ca
Odour threshold pH No data available Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature Odourless/Slight No data available	• • •	
Odour threshold pH Melting point Freezing Point Initial boiling point Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Partition coefficient (P) Autoignition temperature No data available	Colour	Clear/Colourless
Melting point Freezing Point Initial boiling point Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Partition coefficient (P) Autoignition temperature Mo data available No data available	Odour	Odourless/Slight
Melting point Freezing Point Initial boiling point Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density Partition coefficient (P) Autoignition temperature No data available	Odour threshold	No data available
Freezing Point Initial boiling point Flash point Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature No data available	pH	No data available
Initial boiling point Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature No data available	Melting point	No data available
Flash point Evaporation rate Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature No data available	Freezing Point	No data available
Evaporation rate Flammability (solid, gas) Not applicable. Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature No data available	Initial boiling point	No data available
Flammability (solid, gas) Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature Not applicable. No data available	Flash point	No data available
Vapour pressure Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature No data available	Evaporation rate	No data available
Relative Vapour Density Density / Relative Density Fat Solubility Partition coefficient (P) Autoignition temperature No data available No data available No data available	Flammability (solid, gas)	Not applicable.
Density / Relative Density Fat Solubility No data available Partition coefficient (P) Autoignition temperature No data available No data available	Vapour pressure	No data available
Fat Solubility No data available Partition coefficient (P) Autoignition temperature No data available	Relative Vapour Density	No data available
Partition coefficient (P) No data available Autoignition temperature No data available	Density / Relative Density	No data available
Autoignition temperature No data available	Fat Solubility	No data available
	Partition coefficient (P)	No data available
Viscosity No data available	Autoignition temperature	No data available
	Viscosity	No data available
Explosive properties Not applicable.	Explosive properties	Not applicable.
Oxidising properties No data available	Oxidising properties	No data available
Solubility Soluble in water	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	
compounds)	

SECTION 10: Stability and reactivity

10)	1	Re	acti	vitv

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 IIIIOIIIIauoii oii iiazaid cias	эсэ Т				
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 sensitisation	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.				
Depreductive toxicity	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 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	n				
	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 Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.				
11.1.7. Information on likely rou	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 date	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.				
	•				

Revision 6 Revision date 2023-11-20

	Revision date 2025-11-20
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 a	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	
	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 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.
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.

Revision 6

Revision date 2023-11-20

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:

According to DENR Administrative order N°2015-09 and GHS.

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

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, Labelling, 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: U.S. Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation. 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, Authorisation, 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

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Revision 6 Revision date 2023-11-20

Further information	
	Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS
	OF ANY KIND, EXPRESS 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 DENR Administrative order N°2015-09 and GHS

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Extraction Additive (VIP)

Revision 4
Revision date 2023-11-20

SECTION 1: Identification of 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;

DescriptionIntended 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 name Neogen Corporation

Address 620 Lesher Place

Lansing MI 48912

USA

Web www.neogen.com

Telephone number 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 - GHSBased on available data, this product is not classified as hazardous.

2.2. Label elements

Hazard Statement No Significant Hazard

2.3. Other hazards

Other hazards Contains material(s) which may. Dust may be irritating if inhaled.

SECTION 3: Composition/information on ingredients

Description

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

Concentrations listed are not product specifications.

Particle Characteristics

Revision 4

Particle Characteristics	Revision date 2023-11-3
raticle Characteristics	No data available.
	INO data available.
	Full tout of Henryd Otatomanta listed in this Continuis was ided in Continu 10
	Full text of Hazard Statements listed in this Section is provided in Section 16.
SECTION 4: First aid m	easures
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 sympto	oms 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 imme	ediate 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	g measures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arisin	g 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 vapour. Wear self-contained breathing apparatus and chemical-protective clothing.
SECTION 6: Accidental	release measures
6.1. Personal precautions,	protective 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 precau	tions
	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
	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 co.	•

Revision Revision date 2023-11-20

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









8.2.1. Appropriate engineering controls

8.2.2. Individual protection

Use as appropriate: Protective equipment.

Ensure adequate ventilation of the working area.

measures

Eye / face protection

Skin protection -Handprotection

Skin protection - Other

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.

Respiratory protection

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

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

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

Appearance	Powder
Colour	Beige
Odour	Odourless/Slight
Odour threshold	No data available
pH	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 (solid, gas)	No data available
Vapour 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
Oxidising 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	_	R	ea	ctiv	/itv	,

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 IIIIOIIIIauoii oii iiazaiu cias				
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 sensitisation	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.			
Danua desativa tarriait	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 Harmonised 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. Inhalation. Ingestion.			
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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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	According to DENR Administrative order N°2015-09 and GHS.	
Chemical	Contact SDS@neogen.com for additional information. Please specify country or region with your	
Inventories/Right-to-Know	request.	
Lists:		
	California Proposition 65: This product does not contain reportable substances at >0,0001%	
	concentration.	

SECTION 16: Other information

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, Labelling, 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: U.S. Hazard Communication Standard (2012 revision).
	IATA: International Air Transport Association.
	ICAO: International Civil Aviation Organisation.
	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, Authorisation, 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	

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Further information

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