

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, that are biocidal or pesticidal do not require a Safety Data Sheet under the Workplace Hazardous Materials Information System (WHMIS) of Health Canada.
Kit Components:
For product information, please contact your Neogen Corporation Representative.
For further information regarding this SDS, please contact SDS@neogen.com.

Version Date:

Revision:

Replaces:



SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR)

Page 1/8

Walnut Standards

Revision 1 Revision date 2023-11-20

1.1. Product identifier

Product name	Walnut Standards	
Product code	(8550)	

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

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

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard pictograms	

Signal Word

Warning

Hazard Statement

Response

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

Precautionary Statement:

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

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

Revision 1 **Revision date** 2023-11-20

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

3.2. Mixtures

EC 1272/2008

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

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

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Revision 1
Revision date 2023-11-20

	Nevision date 2023-11-20
5.2. Special hazards arising from	n 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	orage
7.1. Precautions for safe handlin	g
	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

Revision 1 Revision date 2023-11-20

8.2. Ex	posure	cont	trols
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Use as appropriate: Protective equipment.
Use as appropriate: Suitable eye protection.
Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.
Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.
In case of insufficient ventilation, wear suitable respiratory equipment.
Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	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	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Odour threshold	No data available
Flammability limits	Not applicable.
Explosive	Not applicable.
Solubility	Soluble in water

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Revision 1 Revision date 2023-11-20

10.1. Reactivity	
	Stable under normal conditions.
10.2. Chemical stability	•
·	Stable under normal conditions.
10.3. Possibility of hazardous re	'
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: Toyloglagical	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 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 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 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	1
	No data available
	,

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

11.1.6. Classification Criteria

11.1.5. Hazard Class

Revision 1
Revision date 2023-11-20

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. 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 data <1% of this mixture consists of ingredients of unknown acute toxicity. 11.1.12. Mixture versus substance information See Section(s) 3 for further information.
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11.1.12. Mixture versus substance information
See Section(s) 3 for further information.
11.1.13. Other information
No data available.
11.2 Information on other hazards
No data available.
SECTION 12: Ecological information
12.1. Toxicity
No data available
12.2. Persistence and degradability
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 properties
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 considerations
13.1. Waste treatment methods
Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods

Revision 1
Revision date 2023-11-20

Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es	s)
	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	T
	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	er T
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk	according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory in	formation
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
Regulations	WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR).
	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	ition
Other information	
Revision	This document differs from the previous version in the following areas:. 2 - Precautionary Statement: Response. 2 - 2.1.2. Classification - GHS. 3 - Description. 4 - Skin contact. 7 - 7.2. Conditions for safe storage, including any incompatibilities. 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.2. Other information (Gas group). 11 - Acute toxicity. 11 - Skin corrosion/irritation. 11 - Respiratory or skin sensitisation.

Revision date 2023-11-20

Other information

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

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.

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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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SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR)

Page 1/9

Walnut Conjugate

Revision 1
Revision date 2023-11-20

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 components from one kit with any other kit.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

24 hours:

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

Hazard pictograms



Signal Word

Hazard Statement

Danger

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

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

Precautionary Statement:

Prevention

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

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

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

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

Revision 1 Revision date 2023-11-20

2.2.	Label	el	em	ent	S
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Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
Response	P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.
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	
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 Inc	dex 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 (Sodium azide As 01 Sodium azide)	11-004-00-7	26628-22-8	247-852-1			Acute Tox. 2: H300; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
5-Chloro-2-methyl-4-isothiazolin-3-c 61 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	13-167-00-5	55965-84-9				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

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.	

Revision 1 Revision date 2023-11-20

4.2. Most important symptoms a	nd effects, both acute and delayed
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 mea	asures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from	n 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, prote	ctive equipment and emergency procedures
	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.
6.2. Environmental precautions	
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
6.3. Methods and material for co	ontainment and cleaning up
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Reference to other sections	
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handling	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 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.

Revision Revision date 2023-11-20

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Glycerin (Glycerin mist)	8-hour OEL ppm:	8-hour OEL mg/m3: 10
	8-hour OEL f/cc:	15-min or ceiling (c) OEL ppm:
	15-min or ceiling (c) OEL mg/m3:	Substance interaction 1,2,3: 3
Sodium azide (Sodium azide As Hydrazoic acid vapours)	8-hour OEL ppm:	8-hour OEL mg/m3:
	8-hour OEL f/cc:	15-min or ceiling (c) OEL ppm: (c) 0.11
	15-min or ceiling (c) OEL mg/m3:	Substance interaction 1,2,3:
Sodium azide (Sodium azide As Sodium azide)	8-hour OEL ppm:	8-hour OEL mg/m3:
,	8-hour OEL f/cc:	15-min or ceiling (c) OEL ppm:
	15-min or ceiling (c) OEL mg/m3: (c) 0.29	Substance interaction 1,2,3:
Sucrose	8-hour OEL ppm:	8-hour OEL mg/m3 : 10
	8-hour OEL f/cc:	15-min or ceiling (c) OEL ppm:
	15-min or ceiling (c) OEL mg/m3:	Substance interaction 1,2,3:

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. Wash the outside of gloves before removing them.

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

In case of insufficient ventilation, wear suitable respiratory equipment.

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

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Revision 1 Revision date 2023-11-20

9.1. Information on basic physical and chemical properties

State	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	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Odour threshold	No data available
Flammability limits	Not applicable.
Explosive	Not applicable.
Solubility	Soluble in water

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Keep away from extreme temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

Revision 1
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.				
	•				

Revision 1
Revision date 2023-11-20

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

Revision 1 **Revision date** 2023-11-20

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, nealth and environmental regulations/legislation specific for the substance or mixture				
Regulations	WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazard Products Regulations (HPR).			
	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.

Revision 1
Revision date 2023-11-20

Other information

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

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

EUH032 - Contact with acids liberates very toxic gas.

Acute Tox. 2: H300 - Fatal if swallowed.

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

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

Acute Tox. 3: H301 - Toxic if swallowed.

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

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

Skin Irrit. 2: H315 - Causes skin irritation.

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

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 Hazardous Products Regulations (HPR)

Page 1/10

K-Blue® Advanced Plus TMB Substrate

Revision 2 Revision date 2023-03-16

	Revision date 2025-05-16			
SECTION 1: Identification of	f 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 th	e safety data sheet			
Company	Neogen Corporation			
Address	620 Lesher Place Lansing MI 48912 USA			
Web	www.neogen.com			
Telephone	517-372-9200/800-234-5333			
Email	SDS@neogen.com			
1.4. Emergency telephone number				
	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)			
SECTION 2: Hazards identi	fication			
2.1. Classification of the substa	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/ir	formation 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

	Revision date 2023-03-16
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.
0.2. Livilorimental 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 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 contr	ols/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.

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

8.2.	Exposure	control	S
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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

State	Liquid
Colour	Clear/Colourless
Odour	Odourless
Odour threshold	No data available
pH	3.1 - 3.4
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
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	Not applicable.
Oxidising	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	
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.	
10.2. Chemical stability		
	Stable under normal conditions.	

Revision 2
Revision date 2023-03-16

	Revision date 2023-03-16
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	

Revision 2
Revision date 2023-03-16

Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport	information
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping na	ime
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class	s(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 hazard	S
	The product is not classified as dangerous for carriage.
14.6. Special precautions fo	r user
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in b	oulk according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory	y information
15.1. Safety, health and env	rironmental regulations/legislation specific for the substance or mixture
Regulations	WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR). 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 Observation This product contains as because of the observation of

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

The Stockholm Convention: This product contains no hazardous substances at or above

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

published reporting levels.

--Asia and the ASEAN Nations--.

Revision 2 Revision date 2023-03-16

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

published reporting levels.

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

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

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

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

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

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

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

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

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

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

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

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

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

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

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

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

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

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.

Revision 2 **Revision date** 2023-03-16

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

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

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

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
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	Flam. Liq. 4: H227 - Combustible liquid.
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	Ov. Sol. 3: H272. May intensify fire: oxidiser

Ox. Sol. 3: H272 - May intensify fire; oxidiser.

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

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

Further information

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

Revision 2 Revision date 2023-03-16

Further information

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, 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 Hazardous Products Regulations (HPR)

Page 1/10

Red Stop Solution

Revision 7 Revision 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	he substance or mixture and uses advised against					
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;					
Description	Intended for use in routine analytics, including quality control and monitoring.					
1.3. Details of the supplier of the	safety data sheet					
Company	Neogen Corporation					
Address	620 Lesher Place Lansing MI 48912 USA					
Web	www.neogen.com					
Telephone	517-372-9200/800-234-5333					
Email	SDS@neogen.com					
1.4. Emergency telephone numb	per					
	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)					
SECTION 2: Hazards identifi	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 1272/2008

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

Description

Concentrations listed are not product specifications.

Particle Characteristics

Not applicable.

Further information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

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

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

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

6.1. Personal precautions.	. protective equipment and	emergency procedures

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

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

food, or feed by storage or disposal.

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

Ensure adequate ventilation of the working area.

Use as appropriate: Protective equipment.

Use as appropriate: Suitable eye protection.

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

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

Revision 7 Revision date 2023-03-16

8.2. Exposure controls

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

State	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 limits	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	Not applicable.
Oxidising	No data available
Solubility	Soluble in water

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
10.2. Chemical stability	
	Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or

Revision 7 Revision date 2023-03-16

10.3. Possibility of hazardous re	actions
	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 class	
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain
Acute toxicity	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	ו
	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	tes of exposure
	Eye contact. Skin contact. Ingestion. Inhalation.

Revision 7
Revision date 2023-03-16

	Revision date 2023-03-16
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.
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	
	Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	·
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused

Revision 7 Revision date 2023-03-16

Disposal of packaging	
	product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for 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.
OFOTION 45. Demiletem inf	

SECTION 15: Regulatory information

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

Regulations

WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR).

--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.

Revision 7 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): Labeling/Notification required, [Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].

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

PRTR-SDS Law (Japan): Class I environmental release, [374, Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].

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

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

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

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

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

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

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

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

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

--Australia and New Zealand ---.

Australian Dangerous Goods Code: Not applicable.

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

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

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

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.

Red Stop Solution

Revision 7 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

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.

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

Acute Tox. 3: H301 - Toxic if swallowed.

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

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

Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented 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

Red Stop Solution

Revision 7 Revision date 2023-03-16

Further information					
	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 Hazardous Products Regulations (HPR)

Page 1/8

Walnut WXB Extraction Buffer

Revision 2 Revision date 2023-11-20

1.1. Product identifier

Product name	Walnut WXB Extraction Buffer		
Product code	24427 400000170		

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

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

1.3 Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

Hazard pictograms



Signal Word

Hazard Statement

Warning

Skin Irrit. 2: H315 - Causes skin irritation.

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

Precautionary Statement:

Precautionary Statement:

Prevention

P264 - Wash thoroughly after handling.

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

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

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.

Revision 2
Revision date 2023-11-20

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 ingradients				

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

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

Description

Inhalation

Concentrations listed are not product specifications.

Particle Characteristics

Not applicable.

Further information

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Revision 2
Revision date 2023-11-20

		Revision date 2023-11-2
5.2. Special hazards arising	from the substance or mixture	
	Irritant. Product does not support combustic ground water, water course or sewage syst	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 r	elease measures	
6.1. Personal precautions, p	rotective equipment and emergency procedures	
	Use as appropriate: Protective equipment, working area. Avoid prolonged or repeated	Protective clothing. Ensure adequate ventilation of the exposure.
6.2. Environmental precaution	ons	
	Prevent further spillage if safe. Clean spillage into surface water. Do not let product conta	ge area thoroughly with plenty of water. Do not flush minate subsoil.
6.3. Methods and material fo	or containment and cleaning up	
	Absorb spillage to prevent material damage Do not contaminate water by cleaning of ed	e. Clean spillage area thoroughly with plenty of water. juipment or disposal of wastes.
6.4. Reference to other sect	ions	
	See Section(s) 2, 8, and 13 for further infor	mation.
SECTION 7: Handling ar	nd storage	
7.1. Precautions for safe ha	ndling	
	with eyes. Do not eat, drink or smoke in are	=
7.2. Conditions for safe stor	age, including any incompatibilities	
	Store at temperatures between 2 °C and 30 Store in correctly labelled containers. Keep food, or feed by storage or disposal.	°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 co	ontrols/personal protection	
8.1. Control parameters		
<u> </u>		
8.1.1. Exposure Limit Value	3	
-	8-hour OEL ppm:	8-hour OEL mg/m3:
Sodium hydroxide		
Sodium hydroxide	8-hour OEL f/cc:	15-min or ceiling (c) OEL ppm:

8.2. Exposure controls

Revision 2 Revision date 2023-11-20

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.

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

State	Liquid
Colour	Cloudy
Odour	Odourless
Odour threshold	No data available
pН	7 - 7.4
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	1
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive	No data available
Oxidising	No data available

Solubility | Soluble in water

9.2. Other information

Revision 2
Revision date 2023-11-20

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.		

Revision 2
Revision date 2023-11-20

	Revision date 2025-11-20
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	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	<u>'</u>
	No data is available on this product.
12.6 Endocrine disrupting prope	'
1 01/46	No data is available on this product.
	•

Revision 2
Revision date 2023-11-20

12.7 Other adverse effects	Revision date 2023-11-2
12.7 Other adverse effects	Specific test data for the mixture is not available.
Further information	Specific test data for the mixture is not available.
urulei illioittiauoli	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal	considerations
13.1. Waste treatment met	hods
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transpor	t information
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping r	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard cla	ss(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 hazar	ds
	The product is not classified as dangerous for carriage.
14.6. Special precautions f	or 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: Regulato	ry information
	vironmental regulations/legislation specific for the substance or mixture
Regulations	WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR).
	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 info	ormation
Other information	

This document differs from the previous version in the following areas:.

Revision

Revision 2
Revision date 2023-11-20

Other information

- 2 Precautionary Statement: Response.
- 4 Eve contact.
- 4 Skin contact.
- 5 5.2. Special hazards arising from the substance or mixture.
- 7 7.2. Conditions for safe storage, including any incompatibilities.
- 8 8.1. Control parameters.
- 9 9.1. Information on basic physical and chemical properties (Fat Solubility).
- 9 9.2. Other information (Gas group).
- 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 Section 3

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

Skin Irrit. 2: H315 - Causes skin irritation.

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

STOT SE 3: H335 - May cause respiratory irritation.

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Further information

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Further information

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SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR)

Page 1/8

Wash Buffer Concentrate, 25X

Revision 6 Revision date 2023-11-20

Print date 2023-11-20

	Revision date 2023-11-2	
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 of	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	Neogen Corporation	
Address	620 Lesher Place	
	Lansing MI 48912	
Web	USA	
Telephone	www.neogen.com 517-372-9200/800-234-5333	
Email	SDS@neogen.com	
1.4. Emergency telephone nun		
	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.	
	1	

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 measi	ıres	
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 a	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 me	asures	
5.1. Extinguishing media		
	Use extinguishing media appropriate to the surrounding fire conditions.	
5.2. Special hazards arising from	n 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	ase 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 c	ontainment and cleaning up	
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.	
6.4. Reference to other sections	5	
	See Section(s) 2, 8, and 13 for further information.	
SECTION 7: Handling and s	storage	
C_O.I.O.I. I I I I I I I I I I I I I I I I	·······	

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

State Liquid Colour Clear/Colourless	
Colour Clear/Colourless	
Odour Odourless/Slight	
Odour threshold No data available	
pH No data available	
Melting point No data available	
Freezing Point No data available	
Initial boiling point No data available	
Flash point No data available	
Evaporation rate No data available	
Flammability limits Not applicable.	
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 No data available	
Explosive Not applicable.	
Oxidising 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	L	Rea	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.

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	7		
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.		
	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	e 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.		

6

Wash Buffer Concentrate, 25X

Revision Revision date 2023-11-20

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

Revision 6 **Revision date** 2023-11-20

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		

SECTION 15: Regulatory information

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

Regulations	WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR).
	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

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SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR)

Page 1/8

Extraction Additive (VIP)

Revision 4
Revision date 2023-11-20

Extraction Additive (VIP) 903-39-8 618-363-4 22198, 400000103 2. Relevant identified uses of the substance or mixture and uses advised against Product Use Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit. 3. Details of the supplier of the safety data sheet Company Address Neogen Corporation 620 Lesher Place Lansing MI 48912 USA Web www.neogen.com felephone 517-372-9200/800-234-5333 SDS@neogen.com 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) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international) 1. Classification of the substance or mixture 2.1.2. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements lazard Statement No Significant Hazard 3. Other hazards		Revision date 2023-11-2
Extraction Additive (VIP) 2AS No. 9003-39-8 618-363-4 22198, 400000103 2. Relevant identified uses of the substance or mixture and uses advised against Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit. 3. Details of the supplier of the safety data sheet Company Negen Corporation 620 Lesher Place Lansing MI 48912 USA Veb www.neogen.com 517-372-9200/800-234-5333 Email SDS@neogen.com 4. Emergency telephone number 24 hours: Medicai: 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 1. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements Hazard Statement No Significant Hazard 3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	SECTION 1: Identification or	f the substance/mixture and of the company/undertaking
SAS No. 9003-39-8	1.1. Product identifier	
2198, 400000103 2. Relevant Identified uses of the substance or mixture and uses advised against [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit. 3. Details of the supplier of the safety data sheet Company Neogen Corporation 620 Lesher Place Lansing MI 48912 USA Web www.neogen.com 517-372-920/0800-234-5333 Email SDS@neogen.com 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) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international) 3. Classification of the substance or mixture 1.1. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements lazard Statement No Significant Hazard No Significant Hazard No Significant Hazard Contains material(s) which may. Dust may be irritating if inhaled.	Product name	Extraction Additive (VIP)
22198, 40000103 22198, 40000103 22198, 40000103 22198, 40000103 22198, 40000103 22198, 40000103 22198, 40000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22198, 400000103 22188, 4000000103 22188, 4000000103 22188, 4000000103 22188, 400000103 22188, 400000000000000000000000000000000000	CAS No.	9003-39-8
2. Relevant identified uses of the substance or mixture and uses advised against Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit. 3. Details of the supplier of the safety data sheet Company Address Neogen Corporation 620 Lesher Place Lansing MI 48912 USA Web www.neogen.com 61ephone 517-372-9200/800-234-5333 SDS@neogen.com 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) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international) SECTION 2: Hazards identification 1. Classification of the substance or mixture 2.1.2. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements No Significant Hazard 3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	EC No.	618-363-4
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.	Product code	22198, 400000103
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Felephone Finall 517-372-9200/800-234-5333 SDS@neogen.com 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) 5ECTION 2: Hazards identification 1. Classification of the substance or mixture 2.1.2. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements Hazard Statement No Significant Hazard 3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	Address	Lansing MI 48912
SDS@neogen.com 4. Emergency telephone number 24 hours:	Web	www.neogen.com
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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 1. Classification of the substance or mixture 2.1.2. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements Hazard Statement No Significant Hazard 3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	Email	SDS@neogen.com
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 1. Classification of the substance or mixture 2.1.2. Classification - GHS Based on available data, this product is not classified as hazardous. 2. Label elements Hazard Statement No Significant Hazard 3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	1.4. Emergency telephone num	ber
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Alazard Statement No Significant Hazard 3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.
.3. Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	2.2. Label elements	
Other hazards Contains material(s) which may. Dust may be irritating if inhaled.	Hazard Statement	No Significant Hazard
	2.3. Other hazards	
SECTION 3: Composition/information on ingredients	Other hazards	Contains material(s) which may. Dust may be irritating if inhaled.
	SECTION 3: Composition/in	formation on ingredients

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

Concentrations listed are not product specifications.

Particle Characteristics

Description

Revision 4

Particle Characteristics	Revision date 2023-11-
raticle Characteristics	No data available.
	No data available.
	Full tout of Henry Chatemants listed in this Coation is assuided in Coation 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 precaut	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

Revision 4
Revision date 2023-11-20

9.1. Information on basic physical and chemical properties

State	Powder
Colour	
	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 limits	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	No data available
Oxidising	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	No data available
compounds)	

SECTION 10: Stability and reactivity

10	1	L	Rea	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

Revision 4
Revision date 2023-11-20

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 tarrialt.	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.		

Revision 4
Revision date 2023-11-20

	Revision date 2023-11-20
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	assessment
	No data is available on this product.
12.6 Endocrine disrupting prope	rties
	No data is available on this product.
12.7 Other adverse effects	
	Specific test data for the substance or mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
Further information	
	Refer to product label and/or package insert for additional information. Follow label instructions.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es	

Revision 4
Revision date 2023-11-20

14.3. Transport hazard class(es)
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for	user
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bu	lk according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory	information
15.1. Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
Regulations	WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR).
	Contact SDS@neogen.com for additional information. Please specify country or region with your

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

SECTION 16: Other information

request.

concentration.

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.
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.

Revision 4
Revision date 2023-11-20

Further information

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