

Kit SDS Cover Sheet

Product Name:

Item No(s):

This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). If a component does not have a Safety Data Sheet included, the item is an article which does not contain any substances of very high concern included on the Candidate List for inclusion in Annex XIV of the Regulation (EC) No 2020/878 of the European Parliament and of the Council concerning Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH), Article 33, and does not require a Safety Data Sheet.

Kit Components:

For product information, please contact your Neogen Corporation Representative. For further information regarding this SDS, please contact <u>SDS@neogen.com</u>.

Version Date: Revision: Replaces:



# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

### Walnut Standards

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product name	Walnut Standards	
Product code	(8550)	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;	
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.	
1.3. Details of the supplier of the safety data sheet		
Company	Neogen Corporation	
Address	620 Lesher Place	
	Lansing MI 48912	
	USA	
Web	www.neogen.com	
Telephone	517-372-9200/800-234-5333	
Email	SDS@neogen.com	
1.4 Emergency telephone num	her	

#### 1.4. Emergency telephone number

24 hours:
Medical: 1-651-523-0318 (international)
Spill/CHEMTREC: 1-703-527-3887 (international)

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture		
2.1.2. Classification - EC 1272/2008	Skin Sens. 1: H317;	
2.2. Label elements		
Hazard pictograms		
Signal Word	Warning	
Hazard Statement	Skin Sens. 1: H317 - May cause an allergic skin reaction.	
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.	
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .	
Response	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.	



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

#### EC 1272/2008

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

#### Description

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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

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

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

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

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

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

#### 5.2. Special hazards arising from the substance or mixture



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5.2. Special hazards arising fron	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	ntainment and cleaning up
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Reference to other sections	
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and st	torage
7.1. Precautions for safe handlin	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 control	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.



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

**Further information** 

Remove and wash contaminated clothing before reuse.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Odourless
pH	7 - 7.4
Density / Relative Density	1
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Oxidising properties	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Odour threshold	No data available
Flammability (solid, gas)	Not applicable.
Explosive properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	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	

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity



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10.1. Reactivity	
	Stable under normal conditions.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous 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.
SECTION 11: Toxicological i	nformation
11.1 Information on hazard class	
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 exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.
11.1.2. Mixtures	
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological Information	
	No data available
11.1.5. Hazard Class	
	See Section(s) 2 and 14 for further information.
11.1.6. Classification Criteria	



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11.1.6. Classification Criteria		
	Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.	
11.1.7. Information on likely 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	ls	
	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**



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Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. 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 name		
	The product is not classified as dangerous for carriage.	
14.3. Transport hazard class(es	)	
	The product is not classified as dangerous for carriage.	
14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7 Maritime Transport in bulk according to IMO instruments		
	The product is not classified as dangerous for carriage.	
SECTION 15: Regulatory information		

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

Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1272/2008 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Chemical	Contact SDS@neogen.com for additional information. Please specify country or region with your
Inventories/Right-to-Know Lists:	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 - Precautionary Statement: Response.
	2 - 2.1.2. Classification - EC 1272/2008.
	3 - Description.
	4 - Skin contact.
	7 - 7.2. Conditions for safe storage, including any incompatibilities.
	9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).
	9 - 9.2. Other information (Gas group).
	11 - Acute toxicity.
	11 - Skin corrosion/irritation.



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Other information	
	11 - Respiratory or skin sensitisation.
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	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Eye Dam. 1: H318 - Causes serious eye damage.
	Aquatic Acute 1: H400 - Very toxic to aquatic life.
Further information	
	DISCLAIMER: The information and recommendations set forth herein ("Information") are presented
	in good faith and believed to be correct as of the date issued. No representation is made regarding
	the completeness or accuracy of the Information. Further, because of the many factors that affect
	the use of this product, the Information is supplied upon the condition that the person(s) receiving it
	will make their own determination regarding its suitability for their own unique purpose(s), prior to
	USE.
	Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS
	OF ANY KIND, 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.



resulting from the use of this product.



# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

# Walnut Conjugate

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product name	Walnut Conjugate	
Product code	(8550)	
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. Do not use components from one kit with any other kit.	
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		

### 1.4. Emergency telephone number

24 hours:
Medical: 1-651-523-0318 (international)
Spill/CHEMTREC: 1-703-527-3887 (international)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.2. Classification - EC	Skin Sens. 1: H317; Resp. Sens. 1: H334;
1272/2008	

#### 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Sens. 1: H317 - May cause an allergic skin reaction. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statement: Prevention	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P284 - In case of inadequate ventilation, wear respiratory protection.</li> </ul>



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

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
Sucrose		57-50-1	200-334-9		1 - 10%	
Peroxidase, from horseradish		9003-99-0	232-668-6		1 - 10%	Resp. Sens. 1: H334;
Sodium azide (Sodium azide (as NaN3))	011-004-00-7	26628-22-8	247-852-1		0 - <0.1%	Acute Tox. 2: H300; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
5-Chloro-2-methyl-4-isothiazolin-3-c ne [EC No 247-500-7] {3 parts of} and 2-Methyl-4-isothiazolin-3-0ne [EC No 220-239-6] {1 part of}, mixture of	613-167-00-5	55965-84-9			0 - <0.1%	Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

#### Description

	Concentrations listed are not product specifications.		
Particle Characteristics			
	Not applicable.		
Further information			
Full text of Hazard Statements listed in this Section is provided in Section 16.			
SECTION 4: First aid measu	res		
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.
4.0 March lange and and an analysis of	nd standa hatta and dalamad

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

Inhalati	ion	May cause irritation to respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye co	ntact	May cause irritation to eyes.
Skin co	ontact	May cause irritation to skin. May cause dermatitis.



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4.2. Most important symptoms and effects, both acute and delayed				
Ingestion	Ingestion may cause nausea and vomiting.			
4.3. Indication of any immediate 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	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	ise 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	9			
	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

8.1.1. Exposure Limit Values		
Glycerin (Glycerol, mist)	OEL 8-hr limit ppm: -	OEL 8-hr limit mg/m3: 10
	OEL 15 min limit ppm: -	OEL 15 min limit mg/m3: -
	Notes: -	
Sodium azide (Sodium azide (as NaN3))	OEL 8-hr limit ppm: -	OEL 8-hr limit mg/m3: 0.1
	OEL 15 min limit ppm: -	OEL 15 min limit mg/m3: 0.3
	Notes: Sk	
Sucrose	OEL 8-hr limit ppm: -	OEL 8-hr limit mg/m3: 10
	OEL 15 min limit ppm: -	OEL 15 min limit mg/m3: 20
	Notes: -	

#### 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.

Remove and wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties



#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Odourless
рH	7 - 7.4
Density / Relative Density	1
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Oxidising properties	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Odour threshold	No data available
Flammability (solid, gas)	Not applicable.
Explosive properties	Not applicable.
Solubility	Soluble in water

#### 9.2. Other information

Conductivity	No data available
-	No data available
	No data available
Benzene 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 re	pactions		
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			



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#### 11.1 Information on hazard classes

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 inhalation and skin contact.		
Germ cell mutagenicity	No mutagenic effects reported.		
Carcinogenicity	No components at >0,01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC)		
	Monographs.		
	No components at >0,01% are listed in the National Toxicology Program (NTP) Report on		
	Carcinogens.		
	Not listed in the OSHA standard 1910.1003 Carcinogens.		
Reproductive toxicity	No teratogenic effects reported.		
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
STOT-repeated exposure	No Significant Hazard.		
Aspiration hazard	No Significant Hazard.		
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.		
11.1.2. Mixtures			
	See Section(s) 3 for further information.		
11.1.3. Hazard Information	·		
	See Section(s) 2 and 3 for further information.		
11.1.4. Toxicological Information	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.		
11.1.8. Symptoms related to the physical, chemical and toxicological characteristics			
	See Section(s) 4.2 for further information.		
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure		
	See Section(s) 4.2 for further information.		
11.1.10. Interactive effects			
	No data available.		
11.1.11. Absence of specific dat	a		
	<1% of this mixture consists of ingredients of unknown acute toxicity.		
11.1.12. Mixture versus substan	ce information		
	See Section(s) 3 for further information.		



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11.1.13. Other information		
	No data available.	
11.2 Information on other hazard	ds	
	No data available.	
SECTION 12: Ecological info	ormation	
12.1. Toxicity		
	No data available	
12.2. Persistence and degradab	ility	
	No data is available on this product.	
12.3. Bioaccumulative potential		
	No data is available on this product.	
12.4. Mobility in soil		
	No data is available on this product.	
12.5. Results of PBT and vPvB	assessment	
	No data is available on this product.	
12.6 Endocrine disrupting prope	rties	
	No data is available on this product.	
12.7 Other adverse effects		
	Specific test data for the mixture is not available.	
Further information		
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.	
SECTION 13: Disposal cons	iderations	
13.1. Waste treatment methods		
	Dispose of in compliance with all local and national regulations. Follow label instructions.	
Disposal methods		
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.	
Disposal of packaging		
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. 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 name		
	The product is not classified as dangerous for carriage.	
14.3. Transport hazard class(es		
	The product is not classified as dangerous for carriage.	
14.4. Packing group		



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	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	·
	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk	
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory inf	ormation
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation
	(EC) No 1272/2008 of the European Parliament and of the Council concerning the Registration,
	Evaluation, Authorisation and Restriction of Chemicals (REACH).
Chemical	Contact SDS@neogen.com for additional information. Please specify country or region with your
Inventories/Right-to-Know Lists:	request.
LISIS.	California Proposition 65: This product does not contain reportable substances at >0,0001%
	concentration.
SECTION 16: Other informa	tion
Other information	
Revision	This document differs from the previous version in the following areas:.
	2 - 2.1. Classification of the substance or mixture.
	2 - 2.1.2. Classification - EC 1272/2008.
	2 - Precautionary Statement: Prevention.
	2 - Precautionary Statement: Response.
	2 - 2.1.2. Classification - EC 1272/2008.
	3 - Description.
	4 - Inhalation.
	4 - Skin contact.
	7 - 7.2. Conditions for safe storage, including any incompatibilities.
	8 - 8.1. Control parameters.
	<ul> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> <li>9 - 9.2. Other information (Gas group).</li> </ul>
	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 (Malaycia)
	(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.

14.4. Packing group



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Other information	
	<ul> <li>IMDG: International Maritime Dangerous Goods.</li> <li>LD: Lethal dose.</li> <li>OEL: Occupational exposure limit.</li> <li>OSHA: U.S. Occupational Safety and Health Administration.</li> <li>PEL: Permissible Exposure Limit.</li> <li>REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.</li> <li>STOT: Specific Target Organ Toxicity.</li> <li>SVHC: Substance of very high concern.</li> <li>US DOT: United States Department of Transportation.</li> <li>VOC: Volatile Organic Compound.</li> <li>WEL: Workplace Exposure Limit.</li> </ul>
Text of Hazard Statements in Section 3	<ul> <li>Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>EUH032 - Contact with acids liberates very toxic gas.</li> <li>Acute Tox. 2: H300 - Fatal if swallowed.</li> <li>Aquatic Acute 1: H400 - Very toxic to aquatic life.</li> <li>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</li> <li>Acute Tox. 3: H301 - Toxic if swallowed.</li> <li>Acute Tox. 3: H311 - Toxic in contact with skin.</li> <li>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</li> <li>Skin Irrit. 2: H315 - Causes skin irritation.</li> <li>Skin Sens. 1: H317 - May cause an allergic skin reaction.</li> <li>Eye Irrit. 2: H319 - Causes serious eye irritation.</li> <li>Acute Tox. 3: H331 - Toxic if inhaled.</li> </ul>
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.





# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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### K-Blue® Advanced Plus TMB Substrate

 Revision
 2

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SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	K-Blue® Advanced Plus TMB Substrate	
Product code	379171, 379175, 379176, 379177, 379257, 379xxx	
1.2. Relevant identified uses of t	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 number		
	24 hours:	
	Medical: 1-651-523-0318 (international)	
	Spill/CHEMTREC: 1-703-527-3887 (international)	
SECTION 2: Hazards identif	cation	
2.1. Classification of the substance or mixture		
2.1.2. Classification - EC 1272/2008	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/inf	formation on ingredients	
3.2. Mixtures		



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.
Urea hydrogen peroxide		124-43-6	204-701-4		0 - <0.5%	2: H315; Eye Irrit. 2: H319; Ox. Sol. 3: H272; Skin Corr. 1B: H314; Eye Dam. 1: H318;
Description						
	Conce	entrations list	ed are not p	roduct specifica	tions.	
Particle Characteristics						
	Not ap	plicable.				
Further information						
	Full te	xt of Hazard	Statements	listed in this Se	ction is provide	d in Section 16.
SECTION 4: First aid mea	asures					
4.1. Description of first aid m	easures					
Inhalation	Move	the exposed	person to fr	esh air. If breath	ning is difficult g	give oxygen. If breathing stops,
	<u> </u>		•			or symptoms persist.
Eye contact		immediately tion or symp			t lenses should	d be removed. Seek medical attention
Skin contact			ated clothing	. Wash with soa	ap and water. S	eek medical attention if irritation or
Incestion		oms persist.	:		4	
Ingestion	thorou		-	-	-	trol center or doctor. Rinse mouth person. Get medical advice/attention
4.2. Most important symptom	ns and effec	ts, both acut	e and delaye	əd		
Inhalation	May c	ause irritatio	n to respirate	ory system.		
Eye contact	May c	ause irritatio	n to eyes.			
Skin contact	May c	ause irritatio	n to skin.			
Ingestion	Ingest	ion may cau	se nausea a	nd vomiting.		
4.3. Indication of any immedi	iate medical	l attention an	d special tre	atment needed		
	there a	are burns or	symptoms o		ek medical atte	n immediately. Transfer to hospital if ntion if irritation or symptoms persist. It hand.
SECTION 5: Firefighting	measures					
5.1. Extinguishing media						
	Use ex	xtinguishing	media appro	priate to the sur	rrounding fire c	onditions.
5.2. Special hazards arising	from the sul	ostance or m	ixture			
				-		nable substance(s) at <10.0%. Do not course or sewage system.
5.3. Advice for firefighters						



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SECTION 6: Accidental release measures			
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 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 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 control	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.		



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8.2. Exposure controls	
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.
	station.

Further information

Remove and wash contaminated clothing before reuse.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
	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 (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	No data available
Partition coefficient (P)	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	Not applicable.
Oxidising properties	No data available
Solubility	Soluble in water

#### 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	
SECTION 10: Stability and reactivity	

#### 10.1. Reactivity

10.2.

	Stable under normal conditions.
2. Chemical stability	

Stable under normal conditions.



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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 i	nformation	
11.1 Information on hazard class	ses	
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.	
Skin corrosion/irritation	May cause irritation to skin.	
Serious eye damage/irritation	May cause irritation to eyes.	
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.	
Germ cell mutagenicity	No mutagenic effects reported.	
Carcinogenicity	No components at >0,01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0,01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.	
Reproductive toxicity	No teratogenic effects reported.	
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
STOT-repeated exposure	No Significant Hazard.	
Aspiration hazard	No Significant Hazard.	
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.	
11.1.2. Mixtures		
	See Section(s) 3 for further information.	
11.1.3. Hazard Information		
	See Section(s) 2 and 3 for further information.	
11.1.4. Toxicological Information		
	No data available	
11.1.5. Hazard Class		
	See Section(s) 2 and 14 for further information.	
11.1.6. Classification Criteria		
	Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.	
11.1.7. Information on likely rout	es of exposure	



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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 dat	a		
	<1% of this mixture consists of ingredients of unknown acute toxicity.		
11.1.12. Mixture versus substant	ce information		
	See Section(s) 3 for further information.		
11.1.13. Other information			
	No data available.		
SECTION 12: Ecological info	rmation		
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	· · · · · · · · · · · · · · · · · · ·		



Disposal of packaging					
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.				
SECTION 14: Transport info	rmation				
14.1. UN number					
	The product is not classified as dangerous for carriage.				
14.2. UN proper shipping name					
	The product is not classified as dangerous for carriage.				
14.3. Transport hazard class(es)					
	The product is not classified as dangerous for carriage.				
14.4. Packing group					
	The product is not classified as dangerous for carriage.				
14.5. Environmental hazards					
The product is not classified as dangerous for carriage.					
14.6. Special precautions for 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 info	ormation				
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture				
Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).				
Chemical Inventories/Right-to-Know Lists:	<ul> <li>International</li> <li>Basel Convention (Hazardous Waste): Not applicable.</li> <li>Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.</li> <li>Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.</li> <li>Mercosur Agreement: Applicable.</li> <li>Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.</li> <li>The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.</li> <li>The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.</li> <li>The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.</li> <li>Asia and the ASEAN Nations</li> <li>Catalog of Hazardous Chemicals (China): [899, Urea peroxide, CAS No. 124-43-6 (&lt;0.1%)].</li> <li>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.</li> </ul>				



15.1. Safety, health and environment	mental regulations/legislation specific for the substance or mixture
	Air Pollution Control Law (Japan): This product contains no hazardous substances at or above
	published reporting levels.
	Chemical Substances Control Law (Japan): This product contains no hazardous substances at or
	above published reporting levels.
	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. Philipping Inventory of Chamicals and Chamical Substances (PICCS): Taxis Substances and
	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 at or above published reporting revers. 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
	I i sinistitana ragin to more care. This product contains no hazardous substances at of above



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

Revision 2

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#### published reporting levels. Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels. California Proposition 65: This product does not contain reportable substances at >0,0001% concentration. **SECTION 16: Other information** Other information Revision This document differs from the previous version in the following areas:. 1 - Description. 3 - Description. 3 - Particle Characteristics. 5 - 5.2. Special hazards arising from the substance or mixture. 7 - 7.2. Conditions for safe storage, including any incompatibilities. 9 - 9.2. Other information (Gas group). 11 - Acute toxicity. 15 - Chemical Inventories/Right-to-Know Lists:. Acronyms ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia). FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act. GHS: Globally Harmonized System. HCS 2012: U.S. Hazard Communication Standard (2012 revision). IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation. IMDG: International Maritime Dangerous Goods. LD: Lethal dose. OEL: Occupational exposure limit. OSHA: U.S. Occupational Safety and Health Administration. PEL: Permissible Exposure Limit. REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals. STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern. US DOT: United States Department of Transportation. VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit. Text of Hazard Statements in Flam. Lig. 4: H227 - Combustible liquid. Section 3 Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Ox. Sol. 3: H272 - May intensify fire; oxidiser. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Eye Dam. 1: H318 - Causes serious eye damage. Further information DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it



will make their own determination regarding its suitability for their own unique purpose(s), prior to

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





# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

# **Red Stop Solution**

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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 the substance or mixture and uses advised against					
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;				
Description	Intended for use in routine analytics, including quality control and monitoring.				
1.3. Details of the supplier of the	e safety data sheet				
Company	Neogen Corporation				
Address	620 Lesher Place Lansing MI 48912				
	USA				
Web	www.neogen.com				
Telephone	517-372-9200/800-234-5333				
Email	SDS@neogen.com				
1.4. Emergency telephone number					
	24 hours: Medical: 1-651-523-0318 (international) Spill/CHEMTREC: 1-703-527-3887 (international)				
SECTION 2: Hazards identification					
2.1. Classification of the substant	nce or mixture				
2.1.2. Classification - EC 1272/2008	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/in	formation on ingredients				
3.2. Mixtures					



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3.2. Mixtures						
EC 1272/2008						
Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc.	Classification
Sodium fluoride.		7681-49-4	231-667-8		<b>(%w/w)</b> 0 - 0.5%	Acute Tox. 3: H301; Skin Corr. 1C: H314; Eye Irrit. 2: H319; Aquatic Acute 3: H402;
Description						
	Conce	entrations list	ed are not p	roduct specifica	tions.	
Particle Characteristics						
	Not ap	oplicable.				
Further information						
	Full te	xt of Hazard	Statements	listed in this Se	ction is provide	ed in Section 16.
SECTION 4: First aid mea	sures					
4.1. Description of first aid me						
Inhalation	Move provid	e artificial res	spiration. Se	ek medical atte	ntion if irritation	give oxygen. If breathing stops, n or symptoms persist.
Eye contact		immediately tion or sympl			ct lenses should	d be removed. Seek medical attention
Skin contact	Remo				ap and water. S	Seek medical attention if irritation or
Ingestion	thorou		-	-		trol center or doctor. Rinse mouth person. Get medical advice/attention
4.2. Most important symptom	s and effec	ts, both acut	e and delay	ed		
Inhalation	May c	ause irritatior	n to respirate	ory system.		
Eye contact	May c	ause irritatior	n to eyes.			
Skin contact		ause irritation				
Ingestion		ion may caus		-		
4.3. Indication of any immedia			-			
	there	are burns or	symptoms o		ek medical atte	n immediately. Transfer to hospital if ntion if irritation or symptoms persist. at hand.
SECTION 5: Firefighting r	neasures					
5.1. Extinguishing media						
	Use e	xtinguishing i	media appro	priate to the su	rrounding fire c	onditions.
5.2. Special hazards arising f	rom the su	bstance or m	ixture			
		ct does not s water course			allow undiluted	product to be released to ground
5.3. Advice for firefighters						
		t breathe vap cal-protective		y mist. Wear sel	f-contained bre	athing apparatus and
SECTION 6: Accidental re	SECTION 6: Accidental release measures					
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#### 6.1. Personal precautions, protective equipment and emergency procedures

	cive equipment and emergency procedures
	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.
6.2. Environmental precautions	
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
6.3. Methods and material for co	ontainment and cleaning up
	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
6.4. Reference to other sections	
	See Section(s) 2, 8, and 13 for further information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handlin	
	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.
Skin protection - Other	Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.



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8.2. Exposure controls	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health
controls	effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash
	station.

**Further information** 

Remove and wash contaminated clothing before reuse.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear/Red
Odour	Characteristic
Odour threshold	No data available
pH	8.7
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	Not applicable.
Oxidising properties	No data available
Solubility	Soluble in water

#### 9.2. Other information

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

#### SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

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



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10.3. Possibility of hazardous re	10.3. Possibility of hazardous reactions				
	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	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					
	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	11.1.7. Information on likely routes of exposure				
	Eye contact. Skin contact. Ingestion. Inhalation.				



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11.1.8. Symptoms related to the physical, chemical and toxicological characteristics		
	See Section(s) 4.2 for further information.	
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure	
	See Section(s) 4.2 for further information.	
11.1.10. Interactive effects		
	No data available.	
11.1.11. Absence of specific 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.	
11.1.13. Other information		
	No data available.	
SECTION 12: Ecological information		
12.1. Toxicity		
	No data available	
12.2. Persistence and degradable	ility	
	No data is available on this product.	
12.3. Bioaccumulative potential		
	No data is available on this product.	
12.4. Mobility in soil		
	No data is available on this product.	
12.5. Results of PBT and vPvB assessment		
	No data is available on this product.	
12.6 Endocrine disrupting prope	rties	
	No data is available on this product.	
12.7 Other adverse effects		
	Specific test data for the mixture is not available.	
Further information		
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.	
SECTION 13: Disposal cons	iderations	
13.1. Waste treatment methods		
	Dispose of in compliance with all local and national regulations. Follow label instructions.	
Disposal methods		
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.	
Disposal of packaging		
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any	



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Disposal of packaging		
	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.	
SECTION 15: Regulatory inf	ormation	
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture	
Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).	
Chemical Inventories/Right-to-Know Lists:	<ul> <li>International</li> <li>Basel Convention (Hazardous Waste): Not applicable.</li> <li>Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.</li> <li>Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.</li> <li>Mercosur Agreement: Applicable.</li> <li>Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.</li> <li>The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.</li> <li>The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.</li> <li>The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.</li> <li>Asia and the ASEAN Nations</li> <li>Catalog of Hazardous Chemicals (China): [754, Sodium fluoride, CAS No. 7681-49-4 (&lt;0.5%)].</li> <li>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.</li> <li>Air Pollution Control Law (Japan): Hazardous substance / Priority chemicals, [Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (&lt;0.5%)].</li> <li>Chemical Substances Control Law (Japan): This product contains no hazardous substances at or</li> </ul>	

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
	above published reporting levels.	
	Industrial Safety and Health Act, Dangerous Substances (Japan): Labeling/Notification required,	
	[Sodium fluoride (fluorine compounds), CAS No. 7681-49-4 (<0.5%)].	
	Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous	
	substances at or above published reporting levels.	
	PRTR-SDS Law (Japan): Class I environmental release, [374, Sodium fluoride (fluorine	
	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)	
	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	



### **Red Stop Solution**

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
	above published reporting levels.		
	California Proposition 65: This product does not contain reportable substances at >0,0001% concentration.		

#### SECTION 16: Other information

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



### **Red Stop Solution**

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





### SAFETY DATA SHEET

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### Walnut WXB Extraction Buffer

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier					
Product name	Walnut WXB Extraction Buffer				
Product code	24437, 400000179				
1.2. Relevant identified uses	of the substance or mixture and uses advised against				
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;				
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.				
1.3. Details of the supplier of the safety data sheet					
Company	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 n	umber				

#### 1.4. Emergency telephone number

24 hours:
Medical: 1-651-523-0318 (international)
Spill/CHEMTREC: 1-703-527-3887 (international)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Eye Irrit. 2: H319;

#### 2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement:	P264 - Wash thoroughly after handling.
Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact



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2.2.	Label	elements
------	-------	----------

lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

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

#### SECTION 3: Composition/information on ingredients

3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
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						
	Conce	ntrations liste	d are not pr	oduct specificati	ons.	
Particle Characteristics						
	Not ap	plicable.				
Further information						
	Full tex	t of Hazard S	Statements	listed in this Sec	tion is provide	d 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	Causes serious eye irritation.				
Skin contact	Causes skin irritation.				
Ingestion	Ingestion may cause nausea and vomiting.				
4.3. Indication of any immediate medical attention and special treatment needed					

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

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.



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5.2. Special hazards arising from	om the substance or mixture	
	Irritant. Product does not support comb ground water, water course or sewage	bustion. Do not allow undiluted product to be released to system.
5.3. Advice for firefighters		
	Do not breathe vapour or spray mist. W chemical-protective clothing.	/ear self-contained breathing apparatus and
SECTION 6: Accidental rel	ease measures	
6.1. Personal precautions, pro	tective equipment and emergency procedu	res
	Use as appropriate: Protective equipment working area. Avoid prolonged or repeated on the second sec	ent, Protective clothing. Ensure adequate ventilation of the ated exposure.
6.2. Environmental precaution	S	
	Prevent further spillage if safe. Clean s into surface water. Do not let product c	pillage area thoroughly with plenty of water. Do not flush ontaminate subsoil.
6.3. Methods and material for	containment and cleaning up	
	Absorb spillage to prevent material dar Do not contaminate water by cleaning	nage. Clean spillage area thoroughly with plenty of water. of equipment or disposal of wastes.
6.4. Reference to other section	IS	
	See Section(s) 2, 8, and 13 for further	information.
SECTION 7: Handling and	storage	
7.1. Precautions for safe hand	ling	
	with eyes. Do not eat, drink or smoke in adequate ventilation of the working are disposal of wastes. Use as appropriate	tions when handling, carrying and dispensing. Avoid contact n areas where this product is used or stored. Ensure a. Do not contaminate water by cleaning of equipment or : Protective clothing. directions, restrictions, and precautions.
7.2. Conditions for safe storag	e, including any incompatibilities	
	Store at temperatures between 2 °C ar Store in correctly labelled containers. k food, or feed by storage or disposal.	nd 30 °C. Follow label instructions. Keep container tightly closed. Do not contaminate water,
7.3. Specific end use(s)		
	See Section(s) 1.2 for further information	on.
Further information		
	Refer to product label and/or package	nsert for additional information. Follow label instructions.
SECTION 8: Exposure con	trols/personal protection	
8.1. Control parameters		
8.1.1. Exposure Limit Values		
Sodium hydroxide	OEL 8-hr limit ppm: - OEL 15 min limit ppm: -	OEL 8-hr limit mg/m3: - OEL 15 min limit mg/m3: 2

#### 8.2. Exposure controls



Notes: -

#### 8.2. Exposure controls

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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

Appearance	Liquid
Colour	Cloudy
Odour	Odourless
Odour threshold	No data available
рH	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 (solid, gas)	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 properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

#### 9.2. Other information



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9.2. Other information

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

#### SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.	
10.2. Chemical stability		
	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.	
10.4. Conditions to avoid		
	Keep away from extreme temperatures.	
10.5. Incompatible materials		
	No data available.	
10.6. Hazardous decomposition products		
	Carbon oxides.	

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0,01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0,01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

11.1.2. Mixtures



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11.1.2. Mixtures	
	See Section(s) 3 for further information.
11.1.3. Hazard Information	
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological Information	
	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 data	a
	<1% of this mixture consists of ingredients of unknown acute toxicity.
11.1.12. Mixture versus substan	ce information
	See Section(s) 3 for further information.
11.1.13. Other information	
	No data available.
11.2 Information on other hazard	is
	No data available.
SECTION 12: Ecological info	prmation
12.1. Toxicity	
	No data available
12.2. Persistence and degradabi	
	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	
12.0. INCOURS OF FOT AND VEVD &	
12 6 Endooring diamenting area	No data is available on this product.
12.6 Endocrine disrupting prope	
	No data is available on this product.



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12.7 Other adverse effects	
	Specific test data for the mixture is not available.
Further information	
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations. Follow label instructions.
Disposal methods	
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for use	
	The product is not classified as dangerous for carriage.
14.7 Maritime Transport in bulk a	according to IMO instruments
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory infe	ormation
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1272/2008 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Chemical Inventories/Right-to-Know Lists:	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 informat	ion

#### Other information



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Other information	
Revision	This document differs from the previous version in the following areas:.
	2 - Precautionary Statement: Response.
	4 - Eye contact.
	4 - Skin contact.
	5 - 5.2. Special hazards arising from the substance or mixture.
	7 - 7.2. Conditions for safe storage, including any incompatibilities.
	8 - 8.1. Control parameters.
	9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).
	9 - 9.2. Other information (Gas group).
	11 - Skin corrosion/irritation.
	11 - Serious eye damage/irritation.
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by
	Rail (RID) and by Road (ADR).
	CAS No.: Chemical Abstracts Service.
	CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013
	(Malaysia).
	FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.
	GHS: Globally Harmonized System.
	HCS 2012: U.S. Hazard Communication Standard (2012 revision).
	IATA: International Air Transport Association.
	ICAO: International Civil Aviation Organisation.
	IMDG: International Maritime Dangerous Goods.
	LD: Lethal dose.
	OEL: Occupational exposure limit.
	OSHA: U.S. Occupational Safety and Health Administration.
	PEL: Permissible Exposure Limit.
	REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.
	STOT: Specific Target Organ Toxicity.
	SVHC: Substance of very high concern.
	US DOT: United States Department of Transportation.
	VOC: Volatile Organic Compound.
	WEL: Workplace Exposure Limit.
Text of Hazard Statements in	Ox. Sol. 2: H272 - May intensify fire; oxidiser.
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	STOT SE 3: H335 - May cause respiratory irritation.
Further information	
	DISCLAIMER: The information and recommendations set forth herein ("Information") are presented
	in good faith and believed to be correct as of the date issued. No representation is made regarding
	the completeness or accuracy of the Information. Further, because of the many factors that affect

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





### SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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### Wash Buffer Concentrate, 25X

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#### SECTION 1: Identification 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	1.2. Relevant identified uses of the substance or mixture and uses advised against		
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;		
Description	Intended for use in routine analytics, including quality control and monitoring. Do not use components from one kit with any other kit.		
1.3. Details of the supplier of the	e safety data sheet		
Company Address	Neogen Corporation 620 Lesher Place Lansing MI 48912 USA		
Web	www.neogen.com		
Telephone	517-372-9200/800-234-5333		
Email	SDS@neogen.com		
1.4. Emergency telephone num	1.4. Emergency telephone number		
	24 hours: Medical: 1-651-523-0318 (international) Spill/CHEMTREC: 1-703-527-3887 (international)		
SECTION 2: Hazards identif	ication		
2.1. Classification of the substa	nce or mixture		
2.1.2. Classification - EC 1272/2008	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/information on ingredients			
Description			
	Concentrations listed are not product specifications.		
Particle Characteristics	·		
	Not applicable.		
	•		



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#### 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

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 release measures

#### 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



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#### 7.1. Precautions for safe handling

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

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

#### 7.3. Specific end use(s)

See Section(s) 1.2 for further informa
--

#### **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

#### 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.	
Skin protection - Other	Use as appropriate: Protective clothing.	
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



#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear/Colourless
Odour	Odourless/Slight
Odour threshold	No data available
рН	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 (solid, gas)	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 properties	Not applicable.
Oxidising properties	No data available
Solubility	Soluble in water

#### 9.2. Other information

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

#### SECTION 10: Stability and reactivity

10.1. Reactivity

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



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#### 11.1 Information on hazard classes

11.1 Information on hazard class		
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		
	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.	
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		
	<1% of this mixture consists of ingredients of unknown acute toxicity.	
11.1.12. Mixture versus substan	ce information	
	See Section(s) 3 for further information.	



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11.1.13. Other information		
	No data available.	
11.2 Information on other hazard	ds	
	No data available.	
SECTION 12: Ecological info	ormation	
12.1. Toxicity		
	No data available	
12.2. Persistence and degradab	ility	
	No data is available on this product.	
12.3. Bioaccumulative potential		
	No data is available on this product.	
12.4. Mobility in soil		
	No data is available on this product.	
12.5. Results of PBT and vPvB a	assessment	
	No data is available on this product.	
12.6 Endocrine disrupting prope	rties	
	No data is available on this product.	
12.7 Other adverse effects		
	Contains substance(s) which are hazardous to the environment. Specific test data for the mixture is not available.	
Further information		
	Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.	
SECTION 13: Disposal cons	iderations	
13.1. Waste treatment methods		
	Dispose of in compliance with all local and national regulations. Follow label instructions.	
Disposal methods		
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.	
Disposal of packaging		
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. 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 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		



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 inf	ormation
	mental regulations/legislation specific for the substance or mixture
Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1272/2008 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Chemical Inventories/Right-to-Know Lists:	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 informa	tion
Other information	
Revision	This document differs from the previous version in the following areas:
Revision	This document differs from the previous version in the following areas:. 7 - 7.2. Conditions for safe storage, including any incompatibilities.
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> </ul>
Revision Acronyms	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> <li>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by</li> </ul>
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> </ul>
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> <li>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</li> <li>CAS No.: Chemical Abstracts Service.</li> <li>CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013</li> </ul>
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> <li>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</li> <li>CAS No.: Chemical Abstracts Service.</li> <li>CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</li> </ul>
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> <li>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</li> <li>CAS No.: Chemical Abstracts Service.</li> <li>CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</li> <li>FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.</li> </ul>
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> <li>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</li> <li>CAS No.: Chemical Abstracts Service.</li> <li>CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</li> </ul>
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Further information	
	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.





### SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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### Extraction Additive (VIP)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Extraction Additive (VIP)	
CAS No.	9003-39-8	
EC No.	618-363-4	
Product code	22198, 400000103	
1.2. Relevant identified uses of 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. Do not use components from one kit with any other kit.	
1.3. Details of the supplier of the	e safety data sheet	
Company	Neogen Corporation	
Address	620 Lesher Place	
	Lansing MI 48912	
Wah	USA	
Web	www.neogen.com	
	517-372-9200/800-234-5333	
Email	SDS@neogen.com	
1.4. Emergency telephone numb		
	24 hours:	
	Medical: 1-651-523-0318 (international) Spill/CHEMTREC: 1-703-527-3887 (international)	
SECTION 2: Hazards identifi	ication	
2.1. Classification of the substan	nce or mixture	
2.1.2. Classification - EC 1272/2008	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. Dust may be irritating if inhaled.	
SECTION 3: Composition/inf	formation on ingredients	
Description		
	No components need to be disclosed according to the applicable regulations. Concentrations listed are not product specifications.	



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Particle Characteristics	Revision date 2023-11-20
	No data available.
Further information	
	Full text of Hazard Statements listed in this Section is provided in Section 16.
SECTION 4: First aid measu	res
4.1. Description of first aid meas	
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	nd 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 mea	asures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from	
	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 relea	ase measures
6.1. Personal precautions, prote	ctive 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 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	
	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. Reference to other sections	
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### **Extraction Additive (VIP)**

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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	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. Dust may be irritating if inhaled.
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

### **SECTION 9: Physical and chemical properties**

instructions.

#### 9.1. Information on basic physical and chemical properties



#### 9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Beige
Odour	Odourless/Slight
Odour threshold	No data available
pH	5 - 8
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	No data available
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	No data available
Viscosity	Not applicable.
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

#### 9.2. Other information

Conductivity	No data available
Surface tension	Not applicable.
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	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. Protect from moisture.
10.5. Incompatible materials	
	No data available.
10.6. Hazardous decomposition products	
	Carbon oxides.
SECTION 11: Toxicological information	



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#### 11.1 Information on hazard classes

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.         No components at >0,01% are listed in the American Conference of Governmental Industriation Hygienists (ACGIH) Guide to Occupational Exposure Values.         Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance:	
Serious eye damage/irritation       May cause irritation to eyes.         Respiratory or skin       May cause allergic reactions in susceptible people.         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 Industria         Hygienists (ACGIH) Guide to Occupational Exposure Values.       Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance:	
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 Industria Hygienists (ACGIH) Guide to Occupational Exposure Values.         Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance:	
sensitisation       No mutagenic effects reported.         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:	
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evidence does not support the substance as a human carcinogen, [Polyvinyl pyrrolidone, C. 9003-39-8]. No components at >0,01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.	
Reproductive toxicity No teratogenic effects reported.	
<b>STOT-single exposure</b> 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 develop           exposure         hypersensitivity (difficult breathing, coughing, asthma) are possible.	nent of
11.1.2. Mixtures	
See Section(s) 3 for further information.	
11.1.3. Hazard Information	
See Section(s) 2 and 3 for further information.	
11.1.4. Toxicological Information	
No data available	
11.1.5. Hazard Class	
See Section(s) 2 and 14 for further information.	
11.1.6. Classification Criteria	
Based on the Globally Harmonised System (GHS) considerations for the classification of mines See Section 15 for regulatory citations.	ktures.
11.1.7. Information on likely routes 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 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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11.1.13. 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 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 substance or mixture is not available.		
Further information			
	Keep out of lakes, ponds, or streams.		
SECTION 13: Disposal considerations			
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 information			
14.1. UN number			
	The product is not classified as dangerous for carriage.		
14.2. UN proper shipping name			
	The product is not classified as dangerous for carriage.		
14.3. Transport hazard class(es)			



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14.3. Transport hazard class(es)		
	The product is not classified as dangerous for carriage.	
14.4. Packing group	·	
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for 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 inf	formation	
	mental regulations/legislation specific for the substance or mixture	
Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation	
Regulatione	(EC) No 1272/2008 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).	
Chemical Inventories/Right-to-Know Lists:	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 informa	tion	
Other information		
Revision	This document differs from the previous version in the following areas:.	
	1 - Description.	
	<ul> <li>7 - 7.2. Conditions for safe storage, including any incompatibilities.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</li> </ul>	
	9 - 9.2. Other information (Gas group).	
	11 - Carcinogenicity.	
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).	
	CAS No.: Chemical Abstracts Service. CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013	
	(Malaysia).	
	FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.	
	GHS: Globally Harmonized System. HCS 2012: U.S. Hazard Communication Standard (2012 revision).	
	IATA: International Air Transport Association.	
	ICAO: International Civil Aviation Organisation.	
	IMDG: International Maritime Dangerous Goods. LD: Lethal dose.	
	OEL: Occupational exposure limit.	
	OSHA: U.S. Occupational Safety and Health Administration.	
	PEL: Permissible Exposure Limit.	
	REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals. STOT: Specific Target Organ Toxicity.	
	SVHC: Substance of very high concern.	
	US DOT: United States Department of Transportation.	
	VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.	



 Revision
 4

 Revision date
 2023-11-20

Further information	
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