



Kit SDS Cover Sheet

Product Name:

Item No(s):

Transport Information: *This kit contains Dangerous Goods component(s) which are being shipped under the Excepted Quantities exemption or as a Chemical kit (UN3316). For further information on individual components, please refer to the corresponding component SDS.*

This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). If a component does not have a Safety Data Sheet included, the item falls under Hazard Communication [1910.1200(b)(6)], *Articles*, and does not require a Safety Data Sheet.

Kit Components:

***Starting with Lot No. 306178, a new non-hazardous substrate is now included in the kit. Please reference section K-Blue Advanced Plus TMB Substrate of this SDS packet.**

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

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/11

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

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

1.1. Product identifier

Product name	Aflatoxin Multi-Level Controls
Product code	(8010)

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 laboratory use only. 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 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number


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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Flam. Liq. 2: H225; Acute Tox. 3: H301; Acute Tox. 3: H311; Acute Tox. 3: H331; STOT SE 1: H370;
-----------------------------	--

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Acute Tox. 3: H301 - Toxic if swallowed. Acute Tox. 3: H311 - Toxic in contact with skin. Acute Tox. 3: H331 - Toxic if inhaled. STOT SE 1: H370 - Causes damage to organs .

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

2.2. Label elements

Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P330 - Rinse mouth. P370+P378 - In case of fire: Use alcohol resistant foam, Carbon dioxide (CO ₂), Dry chemical, Foam to extinguish.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

2.3. Other hazards

Other hazards	Contains material(s) which may damage fertility or the unborn child.
----------------------	--

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Corn Starch (Starch)		9005-25-8	232-679-6		20 - 30%	
Methanol	603-001-00-X	67-56-1	200-659-6		60 - 70%	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370;

Description

	Concentrations listed are not product specifications.
--	---

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	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

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

Inhalation	May be toxic if inhaled. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May be toxic if absorbed through the skin. May cause irritation to skin.
Ingestion	May be toxic if swallowed. 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. IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.
--	---

SECTION 5: Firefighting measures

5.1. Extinguishing media

	In case of fire, use carbon dioxide (CO ₂), Alcohol resistant foam, Dry chemical, Foam. Use extinguishing media appropriate to the surrounding fire conditions.
--	---

5.2. Special hazards arising from the substance or mixture

	In case of fire and/or explosion do not breathe fumes. Vapor may travel considerable distance to source of ignition and flash back. Heat will increase pressure in sealed containers.
--	---

5.3. Advice for firefighters

	Flammable liquid and vapour. In case of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus and protective clothing.
--	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Flammable liquid. Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid sparks, flames, heat and sources of ignition. Ensure adequate ventilation of the working area. Use as appropriate: Protective equipment. 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

	Flammable liquid. Absorb with inert, absorbent material. Collect spillage. Transfer to suitable, labelled containers for disposal. Dispose of this material and its container to hazardous or special waste collection point. Do not contaminate water by cleaning of equipment or disposal of wastes. Clean with detergents. Avoid solvents.
--	---

6.4. Reference to other sections

	See section 2, 8 & 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

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

7.2. Conditions for safe storage, including any incompatibilities

	Flammable liquid and vapour. Contact with combustible material may cause fire. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.
--	--

7.3. Specific end use(s)

	See Section 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

Exposure Limit Values

Corn Starch (Starch)	ACGIH TLV TWA: 10 mg/m ³ Notations: A4 OSHA PEL 8hr TWA mg m3: 15 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Methanol	ACGIH TLV TWA: 200 ppm Notations: Skin; BEI OSHA PEL 8hr TWA mg m3: 260 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: 250 ppm OSHA PEL 8hr TWA ppm: 200 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:

8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.
Skin protection - Other	Use as appropriate: Protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feed and/ or feed products. Provide chemical shower. Provide eye wash station.

Further information

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Colorless
Odor	Alcoholic/Strong
Odor threshold	100
pH	No data available
Melting point	-97.6 °C
Boiling point	64 - 65 °C
Flash point	16 °C
Evaporation rate	6.3 g/min
Flammability limits	Not applicable.
Upper Explosive Limit	36.5 %
Lower Explosive Limit	5.5 %
Vapor pressure	127 mmHg
Vapor density	1.11
Relative density	0.792
Partition coefficient (n-octanol/water)	-0.77 log P oct/wat
Autoignition temperature	440 °C
Viscosity	0.544 mPas (Cone & Plate)
Oxidizing properties	No data available
Solubility	Miscible in water

9.2. Other information

Conductivity	< 1 S/m
Surface tension	22.07 mN/m
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
--	---------------------------------

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
--	--

10.5. Incompatible materials

	Contact with combustible material may cause fire. Keep away from oxidizing agents.
--	--

10.6. Hazardous decomposition products

	Carbon oxides.
--	----------------

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

11.1. Information on toxicological effects

Acute toxicity	Toxic by inhalation, in contact with skin and if swallowed.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	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.
STOT-single exposure	Exposure may cause damage to organs (central nervous system, the liver, eyes or optic nerves). May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	Components(s) may cause damage to human organs based on animal data.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. 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 Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
--	--

11.1.7. Information on likely routes of exposure

	Eye contact. Skin contact. 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

--	--

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

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 degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Corn Starch No data available

Methanol -0.77 log P

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. 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 as special waste in compliance with local and national regulations.

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

Hazard pictograms

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

Hazard pictograms



14.1. UN number

UN1230

14.2. UN proper shipping name

METHANOL (Methanol solution)

14.3. Transport hazard class(es)

DOT	3
Subsidiary risk	6.1
IMDG	3
Subsidiary risk	6.1
IATA	3
Subsidiary risk	6.1

14.4. Packing group

Packing group	II
---------------	----

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

DOT

Hazard ID	336
Tunnel Category	(D/E)

IMDG

EmS Code	F-E S-D
----------	---------

IATA

Packing Instruction (Cargo)	364
Maximum quantity	60 L
Packing Instruction (Passenger)	352
Maximum quantity	1 L

SECTION 15: Regulatory information

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

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	--International-- Basel Convention (Hazardous Waste): H3, H6.1. Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels. Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

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

Mercosur Agreement: Applicable.

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

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

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

--Asia and the ASEAN Nations--.

Catalog of Hazardous Chemicals (China): [1022, Methanol (methyl alcohol), CAS No. 67-56-1].

Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.

Air Pollution Control Law (Japan): Specified substance, [Methanol (methyl alcohol), CAS No. 67-56-1].

Chemical Substances Control Law (Japan): Priority Assessment, (human health), [90, Methanol (methyl alcohol), CAS No. 67-56-1].

Industrial Safety and Health Act, Dangerous Substances (Japan): Specified substance, Flammable, Second-class organic solvents, etc., Labeling/Notification required, [Methanol (methyl alcohol), CAS No. 67-56-1]. Administrative controls, reg. no. 67 [Methanol (methyl alcohol), CAS No. 67-56-1].

Poisonous and Deleterious Substances Act (Japan): Deleterious substance, [Methanol (methyl alcohol), CAS No. 67-56-1].

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): Accident precaution, Toxic substance, [97-1-80, Methanol (methyl alcohol), CAS No. 67-56-1].

Restricted or Prohibited Substances (Korea): This material contains no reportable components.

Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): Schedule I exposure standard, CLASS regulation, [Methanol (methyl alcohol), CAS No. 67-56-1].

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): Type 1, [Methanol (methyl alcohol), CAS No. 67-56-1].

Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals which require developing plan to respond and prevent chemical incident, Decree 113/2017/ND-CP: List of chemicals subject to be restricted in industrial production and trading, Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration.

--Australia and New Zealand--.

Australian Dangerous Goods Code: Class 3(6.1).

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)--.

Annex XVII for REACH: Restricted, Flammable.

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

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

Article 95 of the Biocidal Products Regulation (BPR): Not applicable.
 Authorization List (Annex XIV of REACH): This product contains no hazardous substances at or above published reporting levels.

--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: Methanol (methyl alcohol).

New Jersey Worker and Community Right to Know Act: Methanol (methyl alcohol).

Pennsylvania Right to Know Law: Methanol (methyl alcohol).

Rhode Island Right-to-Know General Law: Methanol (methyl alcohol).

****California residents please note****.

WARNING: This product can expose you to chemicals, including Aflatoxin, CAS No. 1402-68-2, which is/are known to the State of California to cause cancer, and Methanol, CAS No. 67-56-1, 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.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Corn Starch (Starch)	Y	N	N	N	N	N	N	N	N
Methanol	Y	Y	Y 1.0	Y	N	Y	N	N	N

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 1 - Product Use. 1 - Manufactured By:. 2 - 2.1.2. Classification - GHS. 2 - Hazard pictograms. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 12 - 12.1. Toxicity. 15 - Chemical Inventories/Right-to-Know Lists:.
Acronyms	<p>ACGIH: American Conference of Governmental Industrial Hygienists.</p> <p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</p> <p>FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC: Lethal concentration.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p>

Aflatoxin Multi-Level Controls

Revision 4
Revision date 2020-07-20

Other information

	<p>OSHA: U.S. Occupational Safety and Health Administration. PEL: Permissible Exposure Limit. REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals. STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern. UN: United Nations. US DOT: United States Department of Transportation. VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.</p>
<p>Text of Hazard Statements in Section 3</p>	<p>Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled STOT SE 1: H370 - Causes damage to organs . STOT SE 2: H371 - May cause damage to organs .</p>

Further information

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

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/11

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

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

1.1. Product identifier

Product name	Aflatoxin-HRP Conjugate
Product code	(8010)

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 laboratory use only.

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number


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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Skin Sens. 1: H317;
-----------------------------	---------------------

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.

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

2.2. Label elements

Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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 Registration Number	Conc. (%w/w)	Classification
1,2-Benzisothiazol-3(2H)-one	613-088-00-6	2634-33-5	220-120-9		0 - 0.5%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400;
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		0 - 0.5%	Skin Corr. 1A: H314;

Description

	Concentrations listed are not product specifications.
--	---

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

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

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 vapor 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

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.
Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

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

Exposure Limit Values


Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

Exposure Limit Values

Sodium hydroxide	ACGIH TLV TWA: -	ACGIH TLV STEL: C 2 mg/m ³
	Notations: -	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 2	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:

8.2. Exposure controls

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

Further information

	Remove and wash contaminated clothing before reuse.
--	---

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Amber
Odor	Odorless/Slight
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	Not applicable.
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
--	---------------------------------

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

	Keep away from extreme temperatures.
--	--------------------------------------

10.5. Incompatible materials

	No data available.
--	--------------------

10.6. Hazardous decomposition products

	Carbon oxides.
--	----------------

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people. May cause dermatitis.
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. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. 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 Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
--	---

11.1.7. Information on likely routes of exposure

	Eye contact. Skin contact. Ingestion. Inhalation.
--	---

11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

	See Section(s) 4.2 for further information.
--	---

11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

	See Section(s) 4.2 for further information.
--	---

11.1.10. Interactive effects

	No data available.
--	--------------------

11.1.11. Absence of specific data

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

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 degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Aflatoxin-HRP Conjugate No data available

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. 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 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.

SECTION 14: Transport information

14.1. UN number

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	<p>--International--</p> <p>Basel Convention (Hazardous Waste): Not applicable.</p> <p>Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.</p> <p>Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.</p> <p>Mercosur Agreement: Applicable.</p> <p>Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.</p> <p>The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.</p> <p>The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.</p> <p>--Asia and the ASEAN Nations--</p> <p>Catalog of Hazardous Chemicals (China): This product contains no hazardous substances at or above published reporting levels.</p> <p>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.</p> <p>Air Pollution Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.</p> <p>Chemical Substances Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.</p> <p>Industrial Safety and Health Act, Dangerous Substances (Japan): This product contains no hazardous substances at or above published reporting levels.</p> <p>Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous substances at or above published reporting levels.</p>

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

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

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

Water Pollution Control Law (Japan): Designated substance, [Sodium hydroxide, CAS No. 1310-73-2 (<0.1%)].

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): Schedule I exposure standard, CLASS regulation, [Sodium hydroxide, CAS No. 1310-73-2 (<0.1%)].

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 conditional industrial production and trading, Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, [Sodium hydroxide, CAS No. 1310-73-2 (<0.1%)].

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

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

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

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

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

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

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

--North America--.

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

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

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

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

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

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

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

Inventories

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

Inventories

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

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 1 - Description. 1 - Product Use. 1 - Manufactured By:. 2 - Other hazards. 3 - Description. 4 - Skin contact. 5 - 5.2. Special hazards arising from the substance or mixture. 7 - 7.2. Conditions for safe storage, including any incompatibilities. 9 - 9.1. Information on basic physical and chemical properties (Oxidizing properties). 9 - 9.2. Other information (Conductivity). 9 - 9.2. Other information (Gas group). 9 - 9.2. Other information (Surface tension). 9 - 9.2. Other information (Benzene Content). 9 - 9.2. Other information (Product Subcategory). 9 - 9.2. Other information (Lead content). 11 - Acute toxicity. 11 - Respiratory or skin sensitization. 11 - Repeated or prolonged exposure. 11 - Carcinogenicity. 12 - 12.6. Other adverse effects. 15 - Chemical Inventories/Right-to-Know Lists:. 16 - Maximum content of VOC.
Acronyms	<p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</p> <p>FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p> <p>OSHA: U.S. Occupational Safety and Health Administration.</p> <p>PEL: Permissible Exposure Limit.</p> <p>REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.</p> <p>STOT: Specific Target Organ Toxicity.</p> <p>SVHC: Substance of very high concern.</p> <p>US DOT: United States Department of Transportation.</p> <p>VOC: Volatile Organic Compound.</p> <p>WEL: Workplace Exposure Limit.</p>

Aflatoxin-HRP Conjugate

Revision 3
Revision date 2020-08-13

Other information

Text of Hazard Statements in Section 3

Acute Tox. 4: H302 - Harmful if swallowed.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Eye Dam. 1: H318 - Causes serious eye damage.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.

Further information

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

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



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/9

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

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 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	Substrate Solution. Intended for laboratory use only.

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number

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

Further information

	Manufactured By: Neogen Corporation 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A.
--	--

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.
-----------------------------	---

2.2. Label elements

Hazard Statements	No Significant Hazard
-------------------	-----------------------

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Dimethyl sulfoxide		67-68-5	200-664-3		1 - 10%	Flam. Liq. 4: H227; Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Urea hydrogen peroxide		124-43-6	204-701-4		0 - 0.5%	Ox. Sol. 3: H272; Skin Corr. 1B: H314; Eye Dam. 1: H318;

Description

No components need to be disclosed according to the applicable regulations. Concentrations listed are not product specifications.

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 oxidizing substance(s) at <0.1%. Do not allow undiluted product to be released to ground water, water course or sewage system.
--	---

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

	See Section(s) 1.2 for further information.
--	---

Further information


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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	No occupational exposure limits known.
--	--

8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside 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.

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

8.2. Exposure controls

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

Further information

	Remove and wash contaminated clothing before reuse.
--	---

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Colorless
Odor	Odorless
pH	3.1 - 3.4
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Partition coefficient	No data available
Oxidizing properties	No data available
Viscosity	No data available
Odor threshold	No data available
Explosive properties	Not applicable.
Autoignition temperature	Not applicable.
Flammability limits	Not applicable.
Solubility	Soluble in water

9.2. Other information

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

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.
--	---

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

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 toxicological effects

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

11.1.2. Mixtures

See Section(s) 3 for further information.

11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

11.1.4. Toxicological information

No data available

11.1.5. Hazard Class

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

11.1.6. Classification Criteria

Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

11.1.7. Information on likely 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.

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

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 degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

K-Blue® Advanced Plus TMB Substrate No data available

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. Other adverse effects

Specific test data for the mixture is not available.

Further information

Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

Disposal methods

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

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

Disposal of packaging

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

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

Chemical Inventories/Right-to-Know Lists:

--International--

Basel Convention (Hazardous Waste): Not applicable.

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

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

Mercosur Agreement: Applicable.

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

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

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

--Asia and the ASEAN Nations--

Catalog of Hazardous Chemicals (China): [899, Urea peroxide, CAS No. 124-43-6 (<0.1%)].

Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.

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

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

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

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

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

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

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

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

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

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

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

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

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

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

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

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

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

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

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

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

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

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

--North America--.

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

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

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

New Jersey Worker and Community Right to Know Act: Dimethyl sulfoxide, CAS No. 67-68-5.

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

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

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

K-Blue® Advanced Plus TMB Substrate

Revision 1
Revision date 2021-01-14

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 2 - Other hazards. 5 - 5.2. Special hazards arising from the substance or mixture.
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia). FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act. GHS: Globally Harmonized System. HCS 2012: Hazard Communication Standard (2012 revision). IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods. LD: Lethal dose. OEL: Occupational exposure limit. OSHA: U.S. Occupational Safety and Health Administration. PEL: Permissible Exposure Limit. REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals. STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern. US DOT: United States Department of Transportation. VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.
Text of Hazard Statements in Section 3	Flam. Liq. 4: H227 - Combustible liquid. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Ox. Sol. 3: H272 - May intensify fire; oxidiser. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Eye Dam. 1: H318 - Causes serious eye damage.

Further information

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

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/10

K-Blue[®] Advanced Substrate

Revision 10
Revision date 2021-07-27

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

1.1. Product identifier

Product name	K-Blue [®] Advanced Substrate
Product code	21266, 27090, 319171, 319210

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	Substrate Solution. Intended for laboratory use only.

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number

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

Further information

Manufactured By:.
Neogen Corporation
944 Nandino Blvd.
Lexington, KY 40511-1205 U.S.A.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS Repr. 1B: H360D;

2.2. Label elements

Hazard pictograms



Signal Word

Danger

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

2.2. Label elements

Hazard Statement	Repr. 1B: H360D - May damage the unborn child.
Precautionary Statement: Prevention	P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P308+P313 - IF exposed or concerned: Get medical advice/attention.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special 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. Contains oxidizing substance(s) at <0.5%.
----------------------	---

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
2-Pyrrolidinone		616-45-5	210-483-1		1 - 10%	Eye Irrit. 2: H319; Repr. 1B: H360D;
Urea hydrogen peroxide		124-43-6	204-701-4		0 - 0.5%	Ox. Sol. 3: H272; Skin Corr. 1B: H314; Eye Dam. 1: H318;

Description

	Concentrations listed are not product specifications.
--	---

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. May damage fertility or the unborn child .

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.
--	--

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

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 oxidizing substance(s) at <0.5%. Do not allow undiluted product to be released to ground water, water course or sewage system.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters


No occupational exposure limits known.

8.2. Exposure controls

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

8.2. Exposure controls

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

Further information

	Remove and wash contaminated clothing before reuse.
--	---

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Light blue
Odor	Characteristic
Odor threshold	No data available
pH	3.1 - 3.5
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	Not applicable.
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

9.2. Other information

Conductivity	No data available
Surface tension	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
--	---------------------------------

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

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

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 toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	Toxic for reproduction category 1. 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. May cause damage to human organs based on animal data.
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.

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

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 Harmonized System (GHS) considerations for the classification of mixtures.
See Section 15 for regulatory citations.

11.1.7. Information on likely routes of exposure

Eye contact. Skin contact. Ingestion. Inhalation.

11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.

11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

See Section(s) 4.2 for further information.

11.1.10. Interactive effects

No data available.

11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

11.1.13. Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

K-Blue® Advanced Substrate No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27**12.5. Results of PBT and vPvB assessment**

No data is available on this product.

12.6. Other adverse effects

Specific test data for the mixture is not available.

Further information

Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Dispose of in compliance with all local and national regulations. Follow label instructions.

Disposal methods

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	--International-- Basel Convention (Hazardous Waste): H11. Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

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

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

Mercosur Agreement: Applicable.

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

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

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

--Asia and the ASEAN Nations--.

Catalog of Hazardous Chemicals (China): [1908, Triethyltetramine, CAS No. 112-24-3 (<0.1%)], [899, Urea hydrogen peroxide, CAS No. 124-43-6 (<0.05%)].

Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.

Air Pollution Control Law (Japan): Hazardous substance / Priority chemicals, [Triethyltetramine, CAS No. 112-24-3 (<0.1%)].

Chemical Substances Control Law (Japan): Class I environmental release, [Triethyltetramine, CAS No. 112-24-3 (<0.1%)]. Type II monitoring, No. 982 [Triethyltetramine, CAS No. 112-24-3 (<0.1%)].

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): [Triethyltetramine, CAS No. 112-24-3 (<0.1%)], [Urea hydrogen peroxide, CAS No. 124-43-6 (<0.1%)].

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

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

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

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

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

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

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

Hazardous Substances Act (Thailand): Type 1, [Triethyltetramine, CAS No. 112-24-3 (<0.1%)].

Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals subject to conditional industrial production and trading, Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, [Triethyltetramine, CAS No. 112-24-3 (<0.1%)], [Urea hydrogen peroxide, CAS No. 124-43-6 (<0.05%)].

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

Australian Inventory of Chemical Substances (AICS): This product contains one or more components that are not listed or exempt from listing on the inventory administered by the governing country, (<0.1%).

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

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

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

--European Union (EU) and the United Kingdom (UK)--
 Authorization List (Annex XIV of REACH): This product contains no hazardous substances at or above published reporting levels.
 Annex XVII for REACH: This product contains no hazardous substances at or above published reporting levels, No restrictions.
 Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America--
 Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt., No restrictions.
 Toxic Substances Control Act (TSCA): This product contains one or more components that are not listed or exempt from listing on the inventory administered by the governing country, (<0.1%).
 Massachusetts Right-to-Know Hazardous Substance List: This product contains no hazardous substances at or above published reporting levels.
 New Jersey Worker and Community Right to Know Act: This product contains no hazardous substances at or above published reporting levels.
 Pennsylvania Right to Know Law: This product contains no hazardous substances at or above published reporting levels.
 Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.

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

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 1 - Product code.
Acronyms	<p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</p> <p>FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p> <p>OSHA: U.S. Occupational Safety and Health Administration.</p> <p>PEL: Permissible Exposure Limit.</p> <p>REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.</p> <p>STOT: Specific Target Organ Toxicity.</p> <p>SVHC: Substance of very high concern.</p> <p>US DOT: United States Department of Transportation.</p> <p>VOC: Volatile Organic Compound.</p> <p>WEL: Workplace Exposure Limit.</p>

K-Blue® Advanced Substrate

Revision 10
Revision date 2021-07-27

Other information

Text of Hazard Statements in Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation. Repr. 1B: H360D - May damage the unborn child. Ox. Sol. 3: H272 - May intensify fire; oxidiser. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Eye Dam. 1: H318 - Causes serious eye damage.
--	--

Further information

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

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



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/10

Red Stop Solution

Revision 6
Revision date 2021-09-10

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 laboratory use only. 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 Leshler Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number

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

Further information

	Manufactured By: Neogen Corporation 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A.
--	--

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Based on available data, this product is not classified as hazardous.
-----------------------------	---

2.2. Label elements

Hazard Statements	No Significant Hazard
-------------------	-----------------------

2.3. Other hazards

Other hazards	Contains material(s) which may be harmful if swallowed. Contains substance(s) which are hazardous to the environment.
---------------	---

SECTION 3: Composition/information on ingredients

Red Stop Solution

Revision 6
Revision date 2021-09-10

3.2. Mixtures

EC 1272/2008

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

Description

Concentrations listed are not product specifications.

Further information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

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

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Red Stop Solution

Revision 6
Revision date 2021-09-10

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Keep refrigerated.
Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits known.

8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation of the working area.

Individual protection measures

Use as appropriate: Protective equipment.

Eye / face protection

Use as appropriate: Suitable eye protection.

Skin protection - Hand protection

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

Red Stop Solution

Revision 6
Revision date 2021-09-10

8.2. Exposure controls

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

Further information

	Remove and wash contaminated clothing before reuse.
--	---

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Red
Odor	Characteristic
Odor threshold	No data available
pH	8.7
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	Not applicable.
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
--	---------------------------------

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

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

Red Stop Solution

Revision 6
Revision date 2021-09-10

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 toxicological effects

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

11.1.2. Mixtures

See Section(s) 3 for further information.

11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

11.1.4. Toxicological information

No data available

11.1.5. Hazard Class

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

11.1.6. Classification Criteria

Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

11.1.7. Information on likely routes of exposure

Eye contact. Skin contact. Ingestion. Inhalation.

Red Stop Solution

Revision 6
Revision date 2021-09-10

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 degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Red Stop Solution No data available

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. 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 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

Red Stop Solution

Revision 6
Revision date 2021-09-10

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

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

Chemical Inventories/Right-to-Know Lists:

--International--
Basel Convention (Hazardous Waste): Not applicable.
Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.
Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.
Mercosur Agreement: Applicable.
Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.
The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.
The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.

--Asia and the ASEAN Nations--
Catalog of Hazardous Chemicals (China): [754, Sodium fluoride, CAS No. 7681-49-4 (<0.5%)].
Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.
Air Pollution Control Law (Japan): Hazardous substance / Priority chemicals, [Sodium fluoride

Red Stop Solution

Revision 6
Revision date 2021-09-10

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

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

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

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.

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

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

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

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

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

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

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

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

--North America--.

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

Toxic Substances Control Act (TSCA): This product contains one or more components that are not listed or exempt from listing on the inventory administered by the governing country, (<0.05%).

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.

Red Stop Solution

Revision 6
Revision date 2021-09-10

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

	<p>Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.</p> <p>California Prop 65: This product does not contain reportable substances at >0.0001% concentration.</p>
--	---

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 1 - Product Use. 2 - Other hazards. 3 - Description. 9 - 9.2. Other information (Conductivity). 9 - 9.2. Other information (Gas group). 9 - 9.2. Other information (Surface tension). 9 - 9.2. Other information (Benzene Content). 9 - 9.2. Other information (Lead content). 11 - Acute toxicity. 12 - 12.6. Other adverse effects. 15 - Chemical Inventories/Right-to-Know Lists:.
Acronyms	<p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</p> <p>FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p> <p>OSHA: U.S. Occupational Safety and Health Administration.</p> <p>PEL: Permissible Exposure Limit.</p> <p>REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.</p> <p>STOT: Specific Target Organ Toxicity.</p> <p>SVHC: Substance of very high concern.</p> <p>US DOT: United States Department of Transportation.</p> <p>VOC: Volatile Organic Compound.</p> <p>WEL: Workplace Exposure Limit.</p>
Text of Hazard Statements in Section 3	<p>Acute Tox. 3: H301 - Toxic if swallowed.</p> <p>Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Aquatic Acute 3: H402 - Harmful to aquatic life.</p>

Further information

	<p>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</p>
--	--

Red Stop Solution

Revision 6
Revision date 2021-09-10

Further information

use.

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