

SECTION 1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Product ID: A17622-WS-1536, A17622-WS-250, A17622-WS-50, A17622-WS-10, A17622-WS
Revision Date: Sep 09, 2025

Product Name: Apostle MiniMax High Efficiency Cell-Free DNA Wash Solution (Kit Component)
Version: 6.0

1.2 Relevant identified uses of the substance or mixture and uses advised against: Life science laboratory use. For research use only.
Date Printed: Nov 05, 2025

Supersedes Date: Nov 07, 2025

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer's Name: Apostle Inc

Address: 3589 NEVADA ST., PLEASANTON, CA 94566, U.S.

Information Phone Number: +1 888-305-3218

Fax:

1.4 Emergency telephone number:

Emergency Phone: +1 650-503-3528

SECTION 2) HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Flammable Liquids - Category 3

Acute toxicity Dermal - Category 4

Acute toxicity Inhalation Vapor - Category 4

Acute toxicity Oral - Category 4

Serious Eye Damage - Category 1

Skin Corrosion - Category 1C

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

Chronic aquatic toxicity - Category 3

Safety data sheet prepared in accordance to Regulation (EC) No. 1907/2006 as amended from time to time.

2.2 Label Elements

Contains Guanidine Thiocyanate, Isopropyl Alcohol.

Pictograms



Signal Word

Danger

Hazardous Statements - Health

EUH071 - Corrosive to the respiratory tract.

H312 - Harmful in contact with skin

H332 - Harmful if inhaled
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H336 - May cause drowsiness or dizziness

Hazardous Statements - Physical

H226 - Flammable liquid and vapor

Hazardous Statements - Environmental

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - General

Precautionary Statements - Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

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

Precautionary Statements - Response

P303 + P305 + P361 + P351 + P353 + P338 + P310 - IF ON SKIN (or hair): IF IN EYES: Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. Rinse skin with water or shower. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Precautionary Statements - Storage

Precautionary Statements - Disposal

2.3 Other hazards

The substance(s) is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

CAS	Chemical Name	GHS Classifications	% By Weight	EC No
0000593-84-0	THIOCYANIC ACID, COMPD. WITH GUANIDINE (1:1)	Acute Tox. Derm. 4, H312; Acute Tox. Inh. 4, H332; Acute Tox. Oral 4, H302; Aquatic Chronic 3, H412; Eye Dam. 1, H318; Skin Corr. 1C, H314	24% - 33%	209-812-1
0000067-63-0	ISOPROPYL ALCOHOL	Eye Irr. 2, H319; Flam. Liq. 2, H225; STOT SE 3 (Narc.), H336	12% - 18%	200-661-7

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Eliminate all ignition sources if safe to do so. Immediately call a POISON CENTER or doctor. Take precautions to ensure your own safety (e.g. wear appropriate protective equipment).

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

Skin Contact

Store contaminated clothing under water and wash before re-use or discard. Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER or doctor.

Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

SECTION 5) FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

5.2 Special hazards arising from the substance or mixture

Dense smoke may be generated while burning.

5.3 Advice for firefighters

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6) ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency Procedure

Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Evacuate and isolate hazard area and keep unauthorized personnel away. A vapor-suppressing foam may be used to reduce vapors.

Personal Precautions

Do not breathe vapor or mist. Do not get on skin, eyes or clothing.

Recommended Equipment

Breathing protection is required. Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA). Wear liquid tight chemical protective clothing in combination with positive pressure self-contained breathing apparatus (SCBA).

6.2 Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Dike far ahead of liquid spill for later disposal.

6.3 Methods and Materials for Containment and Cleaning up

Ventilate area after clean-up is complete. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean, non-sparking tools to collect absorbed material.

6.4 Reference to other sections

SECTION 7) HANDLING AND STORAGE

7.1 Precautions for safe handling

General

Wash hands after use. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored. All containers must be properly labelled. Do not breathe vapor or mist. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

Storage Room Requirements

Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and strong oxidizers. Store in approved containers and protect against physical damage. Take precautionary measures against electrostatic discharge. To avoid fire or explosion, dissipate static electricity during transfer by ground and bonding containers and equipment before transferring material. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

7.3 Specific end use(s)

No data available.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	UK_WELmg - United Kingdom Workplace Exposure Limits TWA Long-term exposure limit (8-hour Time-Weighted Average) mg/m3	UK_WELppm - United Kingdom Workplace Exposure Limits TWA Long-term exposure limit (8-hour Time-Weighted Average) ppm	UK_WELsmg - United Kingdom Workplace Exposure Limit STEL Short-term exposure limit (15-minutes) mg/m3	UK_WELsppm - United Kingdom Workplace Exposure Limit STEL Short-term exposure limit (15-minutes) ppm	UK_WEL_Health - United Kingdom Workplace Exposure Standard Health Effects	UK_WEL_Notes - United Kingdom Workplace Exposure Standard Notes	EU IOELV - European Indicative Occupational Exposure Limit Value	ACGIH Carcinogen Threshold - Threshold for ACGIH Carcinogens
ISOPROPYL ALCOHOL	999	400	1250	500				

Chemical Name	UK_WEL - United Kingdom Workplace Exposure Limits	ACGIH	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis
ISOPROPYL ALCOHOL	1	1		200		400	A4	Eye & URT irr; CNS impair

Chemical Name	ACGIH Notations	IOELV TWA (mg/m3)	IOELV TWA (ppm)	IOELV STEL (mg/m3)	IOELV STEL (ppm)	IOELV Notations	IOELV Directive
ISOPROPYL ALCOHOL	A4; BEI						

A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

8.2 Exposure Controls

Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield. Goggles should be consistent with EN 166B or equivalent. The lens must remain in the frame and is not to shatter. The frame must remain intact as well. Frame and lens must withstand the impact of a 6 mm steel ball weighing 0,86 gram fired at 432 km/h.

Skin Protection

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Use of chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and microorganisms. Examples of preferred glove barrier materials include: Butyl rubber, Polyethylene, Chlorinated polyethylene, Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Viton, Neoprene, Polyvinyl chloride ("PVC" or "vinyl"), Nitrile/butadiene rubber ("nitrile" or "NBR"). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M). Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 30 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M). Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. Contaminated gloves should be replaced. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program should be followed. When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) certified air-purifying respirators equipped with EN 14387 certified organic vapor absorbent and particulate filter (Filter Type A) can be used as long as appropriate precautions and change out schedules are in place. For emergency or non-routine, high exposure situations, including confined space entry, use certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Environmental Exposure Control

Use the appropriate container to avoid environmental contamination. Keep away from all drains, surface, and ground water. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Density	1.03 g/cm3
Specific Gravity	1.03
% VOC	15.40%
Density VOC	0.16 g/cm3
% HAPS	0.00%
Density HAPS	0.00 g/cm3
% VHAPS	0.00%
Density VHAPS	0.00 g/cm3
% Solids By Weight	29.62%
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Refractive Index	N/A
Appearance	Clear to light yellow liquid
Odor Threshold	N/A
Odor Description	Characteristic
pH	4 - 6
Water Solubility	N/A
Flammability	Flash point at or above 73°F/23°C and less than 100°F/38°C
Flash Point Symbol	N/A

Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Kinematic Viscosity	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A
Kinematic Viscosity Temperature	N/A
Flame Extension	N/A
Water Content	N/A

9.2 Other Information

No Data Available.

SECTION 10) STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions

Will not occur.

10.4 Conditions To Avoid

Avoid all possible sources of ignition, heat, sparks, flame, build up of static electricity and contact with incompatible materials.

10.5 Incompatible Materials

Strong bases, acids, and oxidizing agents.

10.6 Hazardous Decomposition Products

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity

Harmful in contact with skin

Harmful if inhaled

Harmful if swallowed

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is 1527.18 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is 3359.8 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

0000067-63-0 ISOPROPYL ALCOHOL

If ingested causes drunkenness and vomiting. Inhalation can irritate the nose and throat.

LC50 (Rat, Inhalation) = 16,000 ppm/8H Reference : Registry of Toxic Effects of Chemical Substances If ingested causes drunkenness and vomiting. Inhalation can irritate the nose and throat.

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation

Causes serious eye damage

0000067-63-0 ISOPROPYL ALCOHOL

Liquid irritates eyes and may cause injury.

Skin Corrosion/Irritation

Causes severe skin burns and eye damage

0000067-63-0 ISOPROPYL ALCOHOL

Contact can irritate and burn the skin. Prolonged or repeated contact can cause a skin rash, itching, dryness and redness.

Specific Target Organ Toxicity - Repeated Exposure

0000067-63-0 ISOPROPYL ALCOHOL

Repeated high exposure can cause headache, dizziness, confusion, loss of coordination, unconsciousness and even death.

Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness

0000067-63-0 ISOPROPYL ALCOHOL

Vapors cause mild irritation of upper respiratory tract; high concentrations may be anesthetic.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

0000067-63-0 ISOPROPYL ALCOHOL

The substance can be absorbed into the body by inhalation of its vapour.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No data available.

11.2.2 Other Information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, for further information see section 4.

Potential Health Effects - Miscellaneous

0000067-63-0 ISOPROPYL ALCOHOL

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

0000593-84-0 Thiocyanic acid, compd. with guanidine (1:1)

LD50 (oral, female rat): 593 mg/kg

LC50 (rat): 17000 ppm (4-hour exposure); cited as 12000 ppm (8-hour exposure) (18)

LD50 (oral, male rat): 4710 mg/kg (cited as 6.0 mL/kg) (19)

LD50 (oral, mouse): 3600 mg/kg (20, unconfirmed)

LD50 (dermal, rabbit): 12870 mg/kg (cited as 16.4 mL/kg) (14)

SECTION 12) ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects

12.2 Persistence and degradability

0000067-63-0 ISOPROPYL ALCOHOL

Readily biodegradable

12.3 Bioaccumulative Potential

0000067-63-0 ISOPROPYL ALCOHOL

Substance is not expected to bioaccumulate.

12.4 Mobility in Soil

No data available.

12.5 Results of the PBT and vPvB assessment

0000067-63-0 ISOPROPYL ALCOHOL

Substance is readily biodegradable and therefore not considered to be persistent. It is not expected to bioaccumulate as it has a Log Kow < 4.5 and aquatic acute toxicity greatly exceeds the screening criteria of EC50 < 0.1 mg/l.

12.6 Endocrine Disrupting Properties

The substance(s) is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other Adverse Effects

No data available.

12.8 Additional Information

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.2 Waste Disposal

Waste Treatment Methods

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws.

SECTION 14) TRANSPORT INFORMATION

	Land Transportation (ADR/RID)	Inland Waterway Transport (ADN(R))	Air Transport (ICAO/IATA)	Marine Transport (IMDG)
14.1 UN Number	UN2924	UN2924	UN2924	UN2924
14.2 UN proper shipping name	Flammable liquids, corrosive, n.o.s. (Thiocyanic acid, compd. with guanidine (1:1))	Flammable liquids, corrosive, n.o.s. (Thiocyanic acid, compd. with guanidine (1:1))	Flammable liquids, corrosive, n.o.s. (Thiocyanic acid, compd. with guanidine (1:1))	Flammable liquids, corrosive, n.o.s. (Thiocyanic acid, compd. with guanidine (1:1))
14.3 Transport Hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No Data Available	No Data Available	No Data Available	No Data Available
14.6 Special precautions for user	No Data Available	No Data Available	No Data Available	No Data Available
14.7 Maritime transport in bulk according to IMO instruments	No Data Available	No Data Available	No Data Available	No Data Available

SECTION 15) REGULATORY INFORMATION

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

15.1.1 EU REACH Regulations

Contains no REACH Annex XIV substances.

Contains no substance on the REACH candidate list at a concentration level $\geq 0.1\%$.

EU Regulations:

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments. REACH 1907/2006 EC – Annex XVII – Restrictions on Certain Dangerous Substances. Microplastic information: Use restricted. See entry 78.

15.1.2 National Regulations

No additional information available.

15.2 Chemical Safety Assessment

No Data Available.

CAS	Chemical Name	% By Weight	Regulation List
0000593-84-0	THIOCYANIC ACID, COMPD. WITH GUANIDINE (1:1)	24% - 33%	EU_EINECS - European_EC_Inventory_EINECS, EU_EC_Inventory - European Inventory
0000067-63-0	ISOPROPYL ALCOHOL	12% - 18%	EU_EINECS - European_EC_Inventory_EINECS, EU_EC_Inventory - European Inventory, Annex XVII, REACH_Seveso_III_Annex_I - List of Seveso III Annex I - Substances under REACH

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; Acute Tox. - acute toxicity; ADN - (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways); ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances); Chemtrec - Chemical Transportation Emergency Center; CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures; DSL - Domestic Substances List; EC No - The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) EH40/2005 EH40/2005 Workplace exposure limits (<http://www.nationalarchives.gov.uk/doc/opengovernment-licence/>); EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS - European List of Notified Chemical Substances; Eye Dam. - Seriously damaging to the eye; Eye Irrit. – Irritant to the eye; Flam. Liq. – Flammable Liquid; Flam. Sol. – Flammable Solid; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; MARPOL - International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant"); IOELV - Indicative Occupational Exposure Limit Value; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; NLP - No-Longer Polymer; PBT - Persistent, Bioaccumulative and Toxic; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313;

SCBA - Self Contained Breathing Apparatus; ppm - parts per million; REACH - Registration, Evaluation, Authorization and Restriction of Chemicals; Resp. Sens. - Respiratory sensitization; Resp. - Respiratory Irritation; RID - (Regulations concerning the International carriage of Dangerous goods by Rail; Skin Corr. - Corrosive to skin; Skin Irrit. - Irritant to skin; Skin Sens. - Skin sensitization; STEL - Short-term exposure limit; STOT SE - Specific target organ toxicity - single exposure; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; vPvB - Very Persistent and very Bioaccumulative; WEL - Workplace exposure limit.

Training advice

Training staff on good practice.

Manipulations are to be done only by qualified and authorized persons.

Classification methods used to derive the classification for mixtures according to Regulation (EC) 1272/2008

Calculation methods have been used for evaluation of all hazard classes assigned to the product under Article 9 of Regulation (EC) No. 1272/2008.

Key literature references and sources for data

ECHA Dissemination Database, ECHA (European Chemicals Agency), Supplier SDS, INCHEM, ECOTOX (Ecotoxicology Knowledgebase), RTECS (Registry of Toxic Effects of Chemical Substances).

Classification methods used to derive the classification for mixtures according to Regulation (EC) 1272/2008

Calculation methods have been used for evaluation of all hazard classes assigned to the product under Article 9 of Regulation (EC) No. 1272/2008.

Version 6.0:

Revision Date: Sep 09, 2025

Full text of H-Statements referred to under Section 3

- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H314 Causes severe skin burns and eye damage
- H332 Harmful if inhaled
- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H412 Harmful to aquatic life with long lasting effects
- H225 Highly flammable liquid and vapor
- H336 May cause drowsiness or dizziness

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.