Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07.

Date of issue: 07/03/2026 *Reviewed on 07/03/2026*

1 Identification

· ***Product identifier***

· ***Product name:*** **Alumi-Brite**
· ***Other means of identification***

· ***Product number:*** 6050
· ***Relevant identified uses of the substance or mixture and uses advised against***
· ***Product Description:*** Aluminum Cleaner & Brightener

· ***Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
Perform Mfg
1624 S. 45th St.
Kansas City, KS 66106
Customer Service: 913-722-1557
E-Mail: sales@performmfg.com
· ***Emergency telephone number:*** Infotrac: US & Canada: 1-800-535-5053 | International 1-352-323-3500

* 2 Hazard(s) identification

· ***Classification of the substance or mixture***

GHS05 Corrosion

Corrosive to metals 1	H290 May be corrosive to metals.
Skin corrosion 1B	H314 Causes severe skin burns and eye damage.
Eye damage 1	H318 Causes serious eye damage.

GHS07

Acute toxicity - oral 4	H302 Harmful if swallowed.

· ***Label elements***
· ***GHS label elements*** The product is classified and labeled according to the Globally Harmonized System (GHS).
· ***Hazard pictograms***

GHS05 GHS07

· ***Signal word*** Danger

· ***Hazard-determining components of labeling:***
ammonium bifluoride
Phosphoric acid
Nonylphenol Polyethylene Ethoxylate
· ***Hazard statements***
May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
· ***Precautionary statements***
Keep only in original packaging.
Do not breathe dusts or mists.

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Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection / face protection.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in a corrosion resistant container / container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Unknown acute toxicity:***
This value refers to knowledge of known, established toxicological or ecotoxicological values.
0 % of the mixture consists of component(s) of unknown toxicity.

· ***Information pertaining to particular dangers for man and environment:***

· ***Classification system:*** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· ***NFPA ratings (scale 0 - 4)***

Health = 3
Fire = 0
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = *3
Fire = 0
Reactivity = 0

· ***Other hazards***

· ***Results of PBT and vPvB assessment***

· ***PBT:*** Not applicable

· ***vPvB:*** Not applicable

· ***Classification according to (d)(1)(ii) of § 1910.1200***
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· ***Hazards not otherwise classified (HNOC)***
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***

· ***Description:*** Mixture of the substances listed below with nonhazardous additions.

· ***Dangerous components:***		
CAS: 7664-38-2 RTECS: TB 6300000	Phosphoric acid Skin corrosion 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	≥10–<25%

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CAS: 1341-49-7 RTECS: BQ 9200000	ammonium bifluoride Acute toxicity - oral 3, H301; Skin corrosion 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 1 % Skin Irrit. 2; H315: 0.1 % ≤ C < 1 % Eye Irrit. 2; H319: 0.1 % ≤ C < 1 %	5–10%
CAS: 127087-87-0	Nonylphenol Polyethylene Ethoxylate Eye damage 1, H318; Acute toxicity - oral 4, H302; Acute toxicity - inhalation 4, H332	≥1–<3%

· ***Additional information:***
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

* 4 First-aid measures

· ***Description of first aid measures***
· ***General information:***
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· ***After inhalation:***
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
Remove contaminated clothing and wash before reuse.
Immediately wash with water and soap and rinse thoroughly.
· ***After eye contact:***
If thermal burn occurs, flush area with cold water and get immediate medical attention.
Have eyes examined and tested by medical personnel.
Seek immediate medical attention.
Rinse opened eye for several minutes under running water. Then consult a doctor.
If easy to do so, remove contact lenses if worn.
· ***After swallowing:***
Immediately call a doctor.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
· ***Most important symptoms and effects, both acute and delayed*** No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed*** Treat symptomatically.

* 5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:***
Use fire fighting measures that suit the environment.
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***For safety reasons unsuitable extinguishing agents:*** No further relevant information.
· ***Special hazards arising from the substance or mixture***
During heating or in case of fire poisonous gases are produced.
· ***Advice for firefighters***
· ***Protective equipment:***
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

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6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· ***For non-emergency personnel*** Use appropriate personal protection equipment (PPE).
· ***For emergency responders***
Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers / surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***Protective Action Criteria for Chemicals***
Protective Action Criteria (PACs) are essential components for planning and response to uncontrolled releases of hazardous chemicals.
· ***PAC-1:***
PAC 1: Mild, transient health effects.

7664-38-2	Phosphoric acid	3.0 mg/m3
1341-49-7	ammonium bifluoride	11 mg/m3
127087-87-0	Nonylphenol Polyethylene Ethoxylate	12 mg/m3
67-63-0	Isopropyl Alcohol	400 ppm
7757-82-6	sodium sulphate	9.8 mg/m3

· ***PAC-2:***
PAC 2: Irreversible or other serious health effects that could impair the ability to take protective action.

7664-38-2	Phosphoric acid	30 mg/m3
1341-49-7	ammonium bifluoride	130 mg/m3
127087-87-0	Nonylphenol Polyethylene Ethoxylate	130 mg/m3
67-63-0	Isopropyl Alcohol	2000 ppm
7757-82-6	sodium sulphate	110 mg/m3

· ***PAC-3:***
PAC 3: Life-threatening health effects.

7664-38-2	Phosphoric acid	150 mg/m3
1341-49-7	ammonium bifluoride	750 mg/m3
127087-87-0	Nonylphenol Polyethylene Ethoxylate	790 mg/m3
67-63-0	Isopropyl Alcohol	12000 ppm
7757-82-6	sodium sulphate	650 mg/m3

· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of aerosols.

· ***Information about protection against explosions and fires:*** Keep respiratory protective device available.

· ***Conditions for safe storage, including any incompatibilities***

· ***Storage:***

· ***Requirements to be met by storerooms and receptacles:***

Keep container closed when not in use.
Keep container tightly closed.
Keep in properly labelled containers.
Keep out of reach of children.
Store in a cool, dry place away from sparks and flame.

· ***Information about storage in one common storage facility:*** Not required

· ***Further information about storage conditions:*** Keep receptacle tightly sealed.

· ***Specific end use(s)*** No further relevant information available.

* 8 Exposure controls/personal protection

· ***Control parameters***

· ***Components with limit values that require monitoring at the workplace:***

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

7664-38-2 Phosphoric acid	
PEL	Long-term value: 1 mg/m³
REL	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³
TLV	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

· ***Regulatory information***

PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

· ***Additional information:*** The lists that were valid during the creation of this SDS were used as basis.

· ***Exposure controls***

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· ***Appropriate engineering controls*** No further data; see section 7.

· ***Personal protective equipment:***

· ***General protective and hygienic measures:***

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· ***Breathing equipment:***

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· ***Protection of hands:***

Protective gloves

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· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye protection:***

Tightly sealed goggles

· ***Limitation and supervision of exposure into the environment*** None

* 9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Physical state***	Liquid
· ***Color:***	Colored
· ***Odor:***	Fragranced
· ***Odor threshold:***	Not determined
· ***Melting point/Melting range:***	Undetermined
· ***Boiling point/Boiling range:***	100 °C (212 °F)
· ***Flammability:***	Not applicable
· ***Explosion limits:***	
· ***Lower:***	Not determined
· ***Upper:***	Not determined
· ***Flash point:***	Not applicable
· ***Decomposition temperature:***	Not determined
· ***pH-value at 20 °C (68 °F):***	1–2
· ***Viscosity:***	
· ***Kinematic:***	Not determined
· ***Dynamic:***	Not determined
· ***Solubility in / Miscibility with***	
· ***Water:***	Fully miscible.
· ***Partition coefficient (n-octanol/water):***	Not determined
· ***Vapor pressure at 20 °C (68 °F):***	23 hPa (17.3 mm Hg)
· ***Density at 20 °C (68 °F):***	1.20885 g/cm³ (10.08785 lbs/gal)
· ***Relative density***	Not determined
· ***Bulk density:***	1,143 kg/m³
· ***Vapor density***	Not determined
· ***Particle characteristics***	Not applicable
· ***Other information***	
· ***Appearance:***	
· ***Form:***	Liquid
· ***Important information on protection of health and environment, and on safety.***	
· ***Ignition temperature:***	Product is not self-igniting.
· ***Danger of explosion:***	Product does not present an explosion hazard.
· ***Solvent content:***	
· ***Organic solvents:***	0–<0.1 %

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· ***VOC content:*** 0.05–<0.08 %
1.0 g/l / 0.01 lb/gal

· ***Change in condition***

· ***Oxidizing properties*** None

· ***Evaporation rate*** Not determined

* 10 Stability and reactivity

· ***Reactivity***
The product is stable under normal conditions.
No further relevant information available.

· ***Chemical stability*** Stable under normal conditions.

· ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.

· ***Possibility of hazardous reactions*** No dangerous reactions known.

· ***Conditions to avoid*** No further relevant information available.

· ***Incompatible materials:***
Mixing with bleach, alkali, or oxidizers may generate toxic gases.
Never use or mix with other chemicals.
Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

· ***Hazardous decomposition products:*** No dangerous decomposition products known.

* 11 Toxicological information

· ***Information on toxicological effects***

· ***Acute toxicity:***

· ***LD/LC50 values that are relevant for classification:***		
ATE (Acute Toxicity Estimate)		
Oral	LD50	1,470 mg/kg (Rat)
Inhalative	LC50/96 hours	243–441 Mg/l (pim)

7664-38-2 Phosphoric acid		
Oral	LD50	1,530 mg/kg (Rat)
Dermal	LD50	2,740 mg/kg (Rabbit)
Inhalative	LC50/96 hours	98–106 Mg/l (fish)
	LC50	850 mg/l (Rat)
1341-49-7 ammonium bifluoride		
Oral	LD50	130 mg/kg (Rat) OECD Guideline 401
Inhalative	LC50/96 hours	421.4 Mg/l (fish)
127087-87-0 Nonylphenol Polyethylene Ethoxylate		
Oral	LD50	16,000 mg/kg (Rat)
Dermal	LD50	4,490 mg/kg (Rabbit) 24 hr occluded contact
Inhalative	LC50/96 hours	3.8–6.2 Mg/l (pim)

· ***Primary irritant effect:***

· ***on the skin:*** Caustic effect on skin and mucous membranes.

· ***on the eye:***
Strong caustic effect.
Strong irritant with the danger of severe eye injury.

· ***Sensitization:*** No sensitizing effects known.

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· ***Additional toxicological information:***
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
· ***Interactive effects*** No interactive effects between components are known.

· ***Carcinogenic categories***
· ***IARC (International Agency for Research on Cancer)***
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

1341-49-7	ammonium bifluoride	3

· ***NTP (National Toxicology Program)***
None of the ingredients is listed.

· ***OSHA-Ca (Occupational Safety & Health Administration)***
None of the ingredients is listed.

· ***Alternative sources for toxicological information*** No non-standard sources for toxicological information were used.

12 Ecological information

· ***Toxicity***

· ***Aquatic toxicity:***	
7664-38-2 Phosphoric acid	
EC50	>100 mg/kg (Water flea)
127087-87-0 Nonylphenol Polyethylene Ethoxylate	
EC50	1,000 mg/kg (daphnia)

· ***Persistence and degradability*** No further relevant information available.
· ***Bioaccumulative potential*** No further relevant information available.
· ***Mobility in soil*** No further relevant information available.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***Other adverse effects***
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.
· ***Waste disposal key:***
US EPA RCRA waste code D002 (corrosive hazardous wastes). The regulations at 40 CFR section 261.22.

· ***Uncleaned packagings:***
· ***Recommendation:*** Disposal must be made according to official regulations.
· ***Recommended cleansing agent:*** Water, if necessary with cleansing agents.

* 14 Transport information

· ***UN-Number***
· ***DOT, IMDG, IATA*** UN1760
· ***UN proper shipping name***
· ***DOT*** Corrosive liquids, n.o.s. (Ammonium hydrogendifluoride, Phosphoric acid solution)
· ***IMDG*** CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE, PHOSPHORIC ACID, SOLUTION)
· ***IATA*** Corrosive liquid, n.o.s. (AMMONIUM HYDROGENDIFLUORIDE, PHOSPHORIC ACID, SOLUTION)

· ***Transport hazard class(es)***

· ***DOT***

· ***Class*** 8 Corrosive substances
· ***Label*** 8

· ***IMDG, IATA***

· ***Class*** 8 Corrosive substances
· ***Label*** 8
· ***Packing group***
· ***DOT, IMDG, IATA*** III
· ***Environmental hazards:*** Product contains environmentally hazardous substances: Nonylphenol Polyethylene Ethoxylate
· ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*** Not applicable
· ***Transport/Additional information:***
· ***DOT***
· ***Quantity limitations*** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
· ***Remarks:*** OTHER SHIPPING INFORMATION: All products offered for domestic ground transportation that meet the following exceptions for Class 8 (Corrosive Materials) will be packaged and shipped as "Limited Qty".

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(1) For Corrosive Materials in Packing Group II, inner packaging not over 1.0 L (0.3 Gallon) net capacity each for liquids or not over 1.0 kg (2.2 lbs) net capacity each for solids, packed in a strong outer packaging with a gross package weight of 66 lbs or less.

(2) For Corrosive Materials in Packing Group III, inner packaging not over 5.0 L (1.3 Gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging with a gross package weight of 66 lbs or less.

· ***IMDG***

· ***Limited quantities (LQ)***	5L
· ***Excepted quantities (EQ)***	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· ***Special precautions for user***	Warning: Corrosive substances
· ***Hazard identification number (Kemler code):***	80
· ***EMS Number:***	F-A,S-B
· ***Stowage Category***	A
· ***Stowage Code***	SW2 Clear of living quarters.
· ***UN "Model Regulation":***	UN 1760 CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE, PHOSPHORIC ACID, SOLUTION), 8, III

* 15 Regulatory information

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

· ***Sara***

· ***Section 355 (extremely hazardous substances):***

None of the ingredients is listed.

· ***Section 313 (Specific toxic chemical listings):***

7664-38-2	Phosphoric acid
127087-87-0	Nonylphenol Polyethylene Ethoxylate

· ***TSCA (Toxic Substances Control Act):***

7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
7664-38-2	Phosphoric acid	ACTIVE
1341-49-7	ammonium bifluoride	ACTIVE
127087-87-0	Nonylphenol Polyethylene Ethoxylate	ACTIVE
5324-84-5	1-Octanesulfonic acid sodium salt	ACTIVE
7757-82-6	sodium sulphate	ACTIVE

· ***Hazardous Air Pollutants***

None of the ingredients is listed.

· ***Proposition 65***

· ***Chemicals known to cause cancer:***

None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for females:***

None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for males:***

None of the ingredients is listed.

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· ***Chemicals known to cause developmental toxicity:***

None of the ingredients is listed.

· ***New Jersey Right-to-Know List:***

7664-38-2	Phosphoric acid
1341-49-7	ammonium bifluoride

· ***New Jersey Special Hazardous Substance List:***

7664-38-2	Phosphoric acid	CO
1341-49-7	ammonium bifluoride	CO

· ***Pennsylvania Right-to-Know List:***

7664-38-2	Phosphoric acid
1341-49-7	ammonium bifluoride
7757-82-6	sodium sulphate

· ***Pennsylvania Special Hazardous Substance List:***

7664-38-2	Phosphoric acid	E
1341-49-7	ammonium bifluoride	E
7757-82-6	sodium sulphate	E

· ***EPA (Environmental Protection Agency)***

None of the ingredients is listed.

· ***TLV (Threshold Limit Value)***

1341-49-7	ammonium bifluoride	A4

· ***NIOSH-Ca (National Institute for Occupational Safety and Health)***

None of the ingredients is listed.

· ***PFAS***

None of the ingredients is listed.

· ***Per- and polyfluoroalkyl substances (PFAS)***

None of the ingredients is listed.

· ***GHS label elements*** The product is classified and labeled according to the Globally Harmonized System (GHS).

· ***Hazard pictograms***

GHS05 GHS07

· ***Signal word*** Danger

· ***Hazard-determining components of labeling:***
ammonium bifluoride
Phosphoric acid
Nonylphenol Polyethylene Ethoxylate

· ***Hazard statements***
May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.

· ***Precautionary statements***
Keep only in original packaging.
Do not breathe dusts or mists.

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Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection / face protection.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in a corrosion resistant container / container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***SDS created by:*** Access GHS, LLC - 888-363-4870 - Team@access-ghs-sds.com
· ***Date of previous version*** 07/20/2023
· ***Version number of previous version:*** 2
· ***Date of preparation*** 07/03/2026
· ***Abbreviations and acronyms:***
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Corrosive to metals 1: Corrosive to metals – Category 1
Acute toxicity - oral 3: Acute toxicity – Category 3
Acute toxicity - oral 4: Acute toxicity – Category 4
Skin corrosion 1B: Skin corrosion/irritation – Category 1B
Eye damage 1: Serious eye damage/eye irritation – Category 1

· **** Data compared to the previous version altered.***