

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.01.2022

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Revision date: 03.07.2024

Aluminate HD

SECTION 1: Identification

Product Identifier

Product Name: Aluminate HD

Product code: QW-8100

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Aluminum Brightener - Heavy Duty Acid Cleaner

Uses Advised Against: Not determined or not applicable.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

Quest Car Care Products

3333 Production Ct.

Zeeland, Michigan 49464

616-772-5100

www.questcarcare.com

Emergency Telephone Number:

United States

CHEMTREC

1-800-424-9300 (24 hrs)

1-800-262-8200 (24 hrs)

1-703-527-3887 (24 hrs (international))

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (oral), category 3

Acute toxicity (dermal), category 3

Acute toxicity (inhalation), category 3

Skin corrosion, category 1A

Serious eye damage, category 1

Carcinogenicity, category 1A

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

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- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H350 May cause cancer (inhalation)
- H311 Toxic in contact with skin (or extremely harmful)
- H331 Toxic if inhaled (or extremely harmful)
- H301 Toxic if swallowed (or extremely harmful)

Precautionary Statements:

- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash hands/skin thoroughly after contact with or handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P270 Do not eat, drink or smoke when using this product
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 Wash contaminated clothing before reuse
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P310 Immediately call a POISON CENTER/911/PHYSICIAN IF: swallowed, eye contact, skin burns/rash or breathing difficulties.
- P321 Specific treatment (see first aid procedures on the product label in section 4 of this SDS)
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P312 Call a POISON CENTER/911/PHYSICIAN if you feel unwell.
- P302+P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse
- P311 Call a POISON CENTER/911/PHYSICIAN IF: swallowed, eye contact, skin burns/rash or breathing difficulties.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/911 and follow first aid procedures on this SDS.
- P330 Rinse mouth
- P405 Store locked up
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P501 Dispose of contents/container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 7732-18-5	Water	40-60
CAS Number: 7664-93-9	Sulfuric acid	30-40
CAS Number: 7664-39-3	Hydrogen fluoride	5-10

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CAS Number: Proprietary	Alcohols, branched and linear, ethoxylated	1-5
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Additional Information: None

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance. This product is toxic by one or more routes of exposure (inhalation, ingestion, skin contact). Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

After Inhalation:

If you feel unwell or if you are experiencing respiratory tract irritation, get to fresh air and place in a position comfortable for breathing. If breathing is difficult after several minutes, administer oxygen if available and trained to do so and get medical attention. If breathing has stopped, provide artificial respiration and call 911.

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Apply a 2.5% calcium gluconate gel to affected area (caution around eyes). Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Give anti-acid tablets (tums rolaid) or milk of magnesia if available. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed Symptoms and Effects:

Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

In case of ingestion, seek prompt medical attention.

Notes for the Doctor:

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Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel and prevent entry. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing with proper techniques in order to prevent contact with skin or eyes. Place contaminated clothing in a sealed container for future disposal.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Prevent skin contact. Do not get in eyes. Use only with adequate ventilation. Do not add water to the corrosive product. If it is necessary to mix a corrosive product with water, do so slowly adding the corrosive to cold water, in small amounts, and stir frequently. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use. Keep only in original packaging.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight and away from exit paths. Inspect containers

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and storage area regularly for signs of leak and damage. Store containers at a convenient height for handling, below eye level if possible. High shelving increases the risk of dropping containers, personal injury and exposure. Ensure that appropriate fire fighting and spill-clean up equipment is readily available. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Store separately. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sulfuric acid	7664-93-9	8-Hour TWA: 0.2 mg/m ³ (thoracic fraction)
	Hydrogen fluoride	7664-39-3	8-Hour TWA: 0.5 ppm
	Hydrogen fluoride	7664-39-3	Ceiling Limit: 2 ppm
NIOSH	Sulfuric acid	7664-93-9	REL-TWA: 1 mg/m ³ (10 hr)
	Sulfuric acid	7664-93-9	IDLH: 15 mg/m ³
	Hydrogen fluoride	7664-39-3	REL: 3 ppm (10 Hours)
	Hydrogen fluoride	7664-39-3	REL: 2.5 mg/m ³ (10 Hours)
	Hydrogen fluoride	7664-39-3	Ceiling Limit: 6 ppm (15 minutes)
	Hydrogen fluoride	7664-39-3	Ceiling Limit: 5 mg/m ³ (15 minutes)
	Hydrogen fluoride	7664-39-3	IDLH: 30 ppm
OSHA	Sulfuric acid	7664-93-9	8-Hour TWA-PEL: 1 mg/m ³
	Hydrogen fluoride	7664-39-3	TWA: 3 ppm
	Hydrogen fluoride	7664-39-3	STEL: 6 ppm
United States(California)	Sulfuric acid	7664-93-9	8-Hour TWA-PEL: 0.1 mg/m ³
	Sulfuric acid	7664-93-9	15-Minute STEL: 3 mg/m ³

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected

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prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Orange
Odor	Sharp-Pungent / Acrid
Odor threshold	Not determined or not available.
pH	<1.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	None
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.30-1.35
Solubilities	Water
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

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Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Avoid generation of aerosols and mists, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Toxic in contact with skin.

Toxic if inhaled.

Toxic if swallowed

Product Data: No data available.

Substance Data:

Name	Route	Result
Sulfuric acid	oral	LD50 Rat: 2140 mg/kg
Alcohols, branched and linear, ethoxylated	oral	LD50 Rat: 3488 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: >1.6 mg/m ³ (4 hr [aerosol])

Skin Corrosion/Irritation

Assessment:

Causes severe skin burns and eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Sulfuric acid	Causes severe skin burns.
Hydrogen fluoride	Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Sulfuric acid	Causes serious eye damage.
Alcohols, branched and linear, ethoxylated	Causes serious eye damage.

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Respiratory or Skin Sensitization

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

Product Data:

No data available.

Substance Data: No data available.

Carcinogenicity

Assessment:

May cause cancer.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Water	Not Applicable
Alcohols, branched and linear, ethoxylated	Not Applicable
Sulfuric acid	Group 1

National Toxicology Program (NTP):

Name	Classification
Water	Not Applicable
Alcohols, branched and linear, ethoxylated	Not Applicable
Sulfuric acid	Known to be human carcinogens

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

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

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

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

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

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

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

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

Product Data:

No data available.

Substance Data:

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Name	Result
Sulfuric acid	Repeated or prolonged inhalation may damage the lungs. Risk of tooth erosion upon repeated or prolonged exposure to an aerosol of this substance.

Aspiration toxicity

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

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Alcohols, branched and linear, ethoxylated	Fish LC50 <i>Oncorhynchus mykiss</i> : 5 - 7 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 2.5 mg/L (48 hr [mobility])
	Aquatic Plants EC50 <i>Raphidocelis subcapitata</i> : 1.4 mg/L (96 hr [cell number])
Sulfuric acid	Aquatic Plants EC50 Algae: >100 mg/L (72 hr [growth rate])
	Fish LC50 <i>Lepomis macrochirus</i> : >16 - <28 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : >100 mg/L (48 hr [mobility])

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Alcohols, branched and linear, ethoxylated	Fish NOEC <i>Pimephales promelas</i> : 0.28 mg/L (30 d [mortality, Read-across substance data])
	Aquatic Invertebrates NOEC <i>Daphnia magna</i> : 0.77 mg/L (21 d [reproduction, Read-across substance data])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Alcohols, branched and linear, ethoxylated	The substance is readily biodegradable. 72% degradation in water, measured by inorganic C analysis, after 28 days (Read-across substance data)..

Bioaccumulative Potential

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Product Data: No data available.

Substance Data:

Name	Result
Hydrogen fluoride	Fluoride accumulates in aquatic organisms predominantly in the exoskeleton of crustacea and in the skeleton of fish; no accumulation was reported for edible tissue.
Alcohols, branched and linear, ethoxylated	The substance has the potential to bioaccumulate (log Pow=3.3 - 3.73 & BCF= 237 L/kg, Read-across substance data).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Alcohols, branched and linear, ethoxylated	The substance is moderately mobile, therefore, moderate adsorption to soil is expected (log Koc=2.7 - 3.5 at 25 °C, QSAR substance data).
Sulfuric acid	The substance is highly mobile then it has a low potential for adsorption to soil and sediment [Koc at 20 °C: 1].

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Sulfuric acid	The PBT assessment does not apply to inorganic substances.
Hydrogen fluoride	PBT assessment does not apply to inorganic substances.
Alcohols, branched and linear, ethoxylated	The substance is not PBT.

vPvB assessment:

Sulfuric acid	The vPvB assessment does not apply to inorganic substances.
Hydrogen fluoride	vPvB assessment does not apply to inorganic substances.
Alcohols, branched and linear, ethoxylated	The substance is not vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

Dispose of in accordance with state and federal regulations. Small amounts of neat solution can be flushed with copious amounts of water to a sanitary sewer system.

Contaminated packages:

Contact the manufacturer for advice. Wear appropriate personal protective equipment before attempting to handle.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	2922
UN Proper Shipping Name	Corrosive Liquids, Toxic, N.O.S. (Sulfuric Acid, Hydrofluoric Acid)

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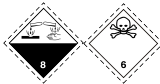
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UN Transport Hazard Class(es)	8 (6.1)	
Packing Group	II	
Environmental Hazards	None	
Special Precautions for User	None	

International Maritime Dangerous Goods (IMDG)

UN Number	2922	
UN Proper Shipping Name	Corrosive Liquids, Toxic, N.O.S. (Sulfuric Acid, Hydrofluoric Acid)	
UN Transport Hazard Class(es)	8 (6.1)	
Packing Group	II	
Environmental Hazards	None	
Special Precautions for User	None	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	2922	
UN Proper Shipping Name	Corrosive Liquids, Toxic, N.O.S. (Sulfuric Acid, Hydrofluoric Acid)	
UN Transport Hazard Class(es)	8 (6.1)	
Packing Group	II	
Environmental Hazards	None	
Special Precautions for User	None	

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances:

7664-93-9	Sulfuric acid	Listed
7664-39-3	Hydrogen fluoride	Listed

SARA Section 313 Toxic Chemicals:

7664-93-9	Sulfuric acid	Listed
7664-39-3	Hydrogen fluoride	Listed

CERCLA:

7664-93-9	Sulfuric acid	Listed	1000 lbs
7664-39-3	Hydrogen fluoride	Listed	100 Lbs

RCRA:

7664-39-3	Hydrogen fluoride	Listed	U134
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Section 112(r) of the Clean Air Act (CAA):

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7664-93-9	Sulfuric acid	Listed
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Massachusetts Right to Know:

7664-93-9	Sulfuric acid	Listed
7664-39-3	Hydrogen fluoride	Listed

New Jersey Right to Know:

7664-93-9	Sulfuric acid	Listed
7664-39-3	Hydrogen fluoride	Listed

New York Right to Know:

7664-93-9	Sulfuric acid	Listed
7664-39-3	Hydrogen fluoride	Listed

Pennsylvania Right to Know:

7664-93-9	Sulfuric acid	Listed
7664-39-3	Hydrogen fluoride	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to Strong inorganic acid mists containing sulfuric acid; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 3-0-1-X

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End of Safety Data Sheet