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Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.01.2023

Revision date: 03.01.2024

Venom

SECTION 1: Identification

Product Identifier

Product Name: Venom **Product code:** QW-0212

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Heavy Duty Acid Detergent - Metal Cleaner Uses Advised Against: Polished Aluminum, Silicon Bearing Substances Reasons Why Uses Advised Against: Can have irreversible effects

Manufacturer or Supplier Details

Manufacturer: United States

Quest Car Care Products 3333 Production Ct. Zeeland, Michigan 49464 616-772-5100 www.guestcarcare.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:

Corrosive to metals, category 1
Acute toxicity (oral), category 2
Acute toxicity (dermal), category 2
Acute toxicity (inhalation), category 2
Skin corrosion, category 1A
Serious eye damage, category 1
Carcinogenicity, category 2

Label elements

Hazard Pictograms:







Signal Word: Danger **Hazard statements:**

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H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H351 Suspected of causing cancer (inhalation)

H310 Fatal or extremely harmful in contact with skin

H300 Fatal or extremely harmful if swallowed

H330 Fatal or extremely harmful if inhaled

Precautionary Statements:

P234 Keep only in original container

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

P262 Do not get in eyes, on skin, or on clothing

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P284 [In case of inadequate ventilation] Wear appropriate respiratory protection

P390 Absorb spillage to prevent material-damage

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

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/911 and follow first aid procedures on this SDS.

P330 Rinse mouth

P320 Specific treatment is urgent (see first aid procedures on the label or section 4 of this SDS)

P406 Store in corrosive resistant/or heavy duty plastic container using a chemical resistant inner liner.

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: 68584-22-5	Benzenesulfonic acid, C10-16-alkyl derivatives	10-15

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CAS Number: 7664-39-3	Hydrogen fluoride	10-15
CAS Number: 7664-38-2	Orthophosphoric Acid	5-10
CAS Number: 111-76-2	2-Butoxyethanol	5-10
CAS Number: 7664-93-9	Sulfuric acid	0.1-0.5

Additional Information:

Ingredients not listed above are being withheld as trade secret.

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 inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Apply calcium gluconate gel to the affected area. 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:

Treatment is urgent. Seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. 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.

Most Important Symptoms and Effects, Both Acute and Delayed Acute Symptoms and Effects:

Products that are corrosive to metals are often corrosive to the skin, eyes and the respiratory tract. 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.

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Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Acute dermal exposure may lead to depression of the central nervous system. Symptoms include dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Exposure far above any stated OELs may result in respiratory depression, unconsciousness and death. Adverse effects are dependent on exposure (dose, concentration, contact time).

Acute oral exposure may lead to depression of the central nervous system. Symptoms include dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Exposure far above any stated OELs may result in respiratory depression, unconsciousness and death. Adverse effects are dependent on exposure (dose, concentration, contact time).

Acute inhalation exposure may lead to depression of the central nervous system. Symptoms include dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Exposure far above any stated OELs may result in respiratory depression, unconsciousness and death. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Suspected of causing cancer. Effects are dependent on exposure (dose, concentration, contact time). Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

In case of ingestion, seek prompt medical attention.

Notes for the Doctor:

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:

Contact with metals may evolve flammable hydrogen gas. 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

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Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. 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 and launder before reuse.

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. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable corrosive resistant containers for future disposal. Do not get water in containers as reaction with water or moist air may release toxic, corrosive or flammable gases. 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. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do not get in eyes. Avoid contact with skin and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. 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	Hydrogen fluoride	7664-39-3	8-Hour TWA: 0.5 ppm
	Hydrogen fluoride	7664-39-3	Ceiling Limit: 2 ppm
	Orthophosphoric Acid	7664-38-2	8-Hour TWA: 1 mg/m ³
	Orthophosphoric Acid	7664-38-2	15-Minute STEL: 3 mg/m³
	Sulfuric acid	7664-93-9	8-Hour TWA: 0.2 mg/m³ (thoracic fraction)
	2-Butoxyethanol	111-76-2	8-Hour TWA: 20 ppm

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Hydrogen fluoride	7664-39-3	REL: 3 ppm (10 Hours)
	Hydrogen fluoride	7664-39-3	REL: 2.5 mg/m³ (10 Hours)
	Hydrogen fluoride	7664-39-3	Ceiling Limit: 6 ppm (15 minutes)
	Hydrogen fluoride	7664-39-3	Ceiling Limit: 5 mg/m³ (15 minutes)
	Hydrogen fluoride	7664-39-3	IDLH: 30 ppm
	Orthophosphoric Acid	7664-38-2	REL-TWA: 1 mg/m³ (up to 10 hr)
	Orthophosphoric Acid	7664-38-2	15-Minute STEL: 3 mg/m ³
	Orthophosphoric Acid	7664-38-2	IDLH: 1000 mg/m ³
	Sulfuric acid	7664-93-9	REL-TWA: 1 mg/m³ (10 hr)
	Sulfuric acid	7664-93-9	IDLH: 15 mg/m ³
	2-Butoxyethanol	111-76-2	IDLH: 700 ppm
	2-Butoxyethanol	111-76-2	REL-TWA: 24 mg/m³ (5 ppm [up to 10 hr])
OSHA	Hydrogen fluoride	7664-39-3	TWA: 3 ppm
	Hydrogen fluoride	7664-39-3	STEL: 6 ppm
	Orthophosphoric Acid	7664-38-2	8-Hour TWA-PEL: 1 mg/m³ (OSHA Table Z-1 limits)
	Orthophosphoric Acid	7664-38-2	TWA: 1 mg/m³ (OSHA Table Z-1-A)
	Orthophosphoric Acid	7664-38-2	STEL: 3 mg/m³ (OSHA Table Z-1-A)
	Sulfuric acid	7664-93-9	8-Hour TWA-PEL: 1 mg/m ³
	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 240 mg/m ³ (50 ppm)
United States(California)	Orthophosphoric Acid	7664-38-2	8-Hour TWA-PEL: 1 mg/m ³
	Orthophosphoric Acid	7664-38-2	15-Minute STEL: 3 mg/m ³
	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
	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 97 mg/m ³ (20 ppm)
United States	2-Butoxyethanol	111-76-2	8-Hour TWA: 120 mg/m³ (25 ppm [U.S. State, Tennessee])

Biological Limit Values:

Country (Legal Basis)	Substance	Determin ant	Specimen	Sampling time	Permissibl e limits
ACGIH	2-Butoxyethanol	,	Creatinine in Urine	End of shift	200 mg/g

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

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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 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	Red
Odor	Sharp-pungent, acrid
Odor threshold	Not determined or not available.
рН	<1.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	>93 c
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	1.08-1.12
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.

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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.

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.

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Avoid confined spaces, 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:

Fatal in contact with skin.

Fatal if swallowed. Fatal if inhaled.

Product Data: No data available.

Substance Data:

Name	Route	Result		
Orthophosphoric Acid	inhalation	LC50 Rat: 422.25 mg/L (4 hr [aerosol])		
	oral	LD50 Rat: 1530 mg/kg		
	dermal	LD50 Rabbit: 2740 mg/kg		
Benzenesulfonic acid, C10-16-	inhalation	LC50 Rat: >1.9 mg/L (4 h [aerosol])		
alkyl derivatives	Dermal ATE	LD50 Rabbit: 1100 mg/kg		
	Oral ATE	LD50 Rat: 500 mg/kg		
Sulfuric acid	oral	LD50 Rat: 2140 mg/kg		
2-Butoxyethanol	Dermal ATE	LD50 Rabbit: 1100 mg/kg		
	Oral ATE	LD50 Rat: 1200 mg/kg		
	Inhalation ATE	LC50 Rat: 3 mg/L (4 hr [Vapours])		

Skin Corrosion/Irritation

Assessment:

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Causes severe skin burns and eye damage.

Product Data:
No data available.

Substance Data:

Name	Result
Hydrogen fluoride	Causes severe skin burns and eye damage.
Orthophosphoric Acid	Causes severe skin burns.
Benzenesulfonic acid, C10-16- alkyl derivatives	Causes severe skins burns.
Sulfuric acid	Causes severe skin burns.
2-Butoxyethanol	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:No data available.

Substance Data:

Name	Result
Orthophosphoric Acid	Causes serious eye damage.
Benzenesulfonic acid, C10-16-alkyl derivatives	Causes serious eye damage.
Sulfuric acid	Causes serious eye damage.
2-Butoxyethanol	Causes serious eye irritation.

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:

Suspected of causing cancer. **Product Data:** No data available. **Substance Data:** No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Water	Not Applicable
Orthophosphoric Acid	Not Applicable
Benzenesulfonic acid, C10-16-alkyl derivatives	Not Applicable
Sulfuric acid	Group 1
2-Butoxyethanol	Group 3

National Toxicology Program (NTP):

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Name	Classification
Water	Not Applicable
Orthophosphoric Acid	Not Applicable
Benzenesulfonic acid, C10-16-alkyl derivatives	Not Applicable
Sulfuric acid	Known to be human carcinogens
2-Butoxyethanol	Not Applicable

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:

Name	Result
	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

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Acute (Short-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Orthophosphoric Acid	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [immobilization])
	Aquatic Plants EC50 Desmodesmus subspicatus: > 100 mg/L (72 hr [growth rate])
	Fish LC50 Oryzias latipes: 100 mg/L (96 hr)
Benzenesulfonic acid, C10-16- alkyl derivatives	Aquatic Invertebrates EC50 Daphnia magna: >1000 mg/L (48hr [mobility] Read-across)
	Aquatic Plants EC50 Raphidocelis subcapitata: >1000 mg/L (72 hr [growth rate] Read-across)
Sulfuric acid	Aquatic Plants EC50 Algae: >100 mg/L (72 hr [growth rate])
	Fish LC50 Lepomis macrochirus: >16 - <28 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >100 mg/L (48 hr [mobility])
2-Butoxyethanol	Aquatic Invertebrates EC50 Daphnia magna: 1550 mg/L (48 hr [mobility])
	Fish LC50 Oncorhynchus mykiss: 1474 mg/L (96 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: 623 mg/L (72 hr [biomass])

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Fish NOEC Danio rerio: > 100 mg/L (21 d [markers for endocrine disruptive effects])
	Aquatic Invertebrates NOEC Daphnia magna: 100 mg/L (21 d [reproduction])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Orthophosphoric Acid	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Benzenesulfonic acid, C10-16-alkyl derivatives	Under test conditions no biodegradation observed.
2-Butoxyethanol	The substance is readily biodegradable. 90.4% degradation, measured by CO2 evolution, after 28 days.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
,	Fluoride accumulates in aquatic organisms predominantly in the exoskeleton of crustacea and in the skeleton of fish; no accumulation was reported for edible tissue.

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Name	Result	
	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.	
2-Butoxyethanol	The substance is not expected to bioaccumulate (log Kow = 0.83).	

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Orthophosphoric Acid	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
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:

Hydrogen fluoride	PBT assessment does not apply to inorganic substances.
1	PBT assessment does not apply to inorganic compounds such as this substance.
Sulfuric acid	The PBT assessment does not apply to inorganic substances.
2-Butoxyethanol	The substance is not PBT.

vPvB assessment:

Hydrogen fluoride	vPvB assessment does not apply to inorganic substances.	
Orthophosphoric Acid	vPvB assessment does not apply to inorganic compounds such as this substance.	
Sulfuric acid	The vPvB assessment does not apply to inorganic substances.	
2-Butoxyethanol	The substance is not vPvB.	

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

Dispose of in accordance with local and state guidelines-regulations.

Contaminated packages:

Dispose of in accordance with local and state guidelines-regulations. If transferring to other containers it should be HDPE plastic and only do so if you can safely. Rinse the exterior of the packaging with water before handling. Use appropriate personal protective equipment. Do to transfer to metal unlined containers.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN2922
UN Proper Shipping Name	Corrosive liquids, toxic, N.O.S. (Hydrofluoric Acid, Phosphoric Acid)

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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. (Hydrofluoric Acid, Phosphoric 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)

<u> </u>	
UN Number	Not regulated
UN Proper Shipping Name	Corrosive liquids, toxic, N.O.S. (Hydrofluoric Acid, Phosphoric 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:

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

SARA Section 313 Toxic Chemicals:

7664-39-3	Hydrogen fluoride	Listed
7664-93-9	Sulfuric acid	Listed
111-76-2	2-Butoxyethanol	Listed

CERCLA:

7664-39-3	Hydrogen fluoride	Listed	100 Lbs
7664-38-2	Orthophosphoric Acid	Listed	5000 lbs

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Venom

7664-93-9	Sulfuric acid	Listed	1000 lb
111-76-2	2-Butoxyethanol	Listed	N/A
RA:	•	•	
7664-39-3	Hydrogen fluoride	Listed	U134
tion 112(r) of	the Clean Air Act (CAA):	•	
7664-93-9	Sulfuric acid		Listed
ssachusetts Ri	ght to Know:		
7664-39-3	Hydrogen fluoride		Listed
7664-38-2	Orthophosphoric Acid		Listed
7664-93-9	Sulfuric acid		Listed
111-76-2	2-Butoxyethanol		Listed
w Jersey Right	to Know:		•
7664-39-3	Hydrogen fluoride		Listed
7664-38-2	Orthophosphoric Acid		Listed
7664-93-9	Sulfuric acid		Listed
111-76-2	2-Butoxyethanol		Listed
w York Right to	o Know:		-
7664-39-3	Hydrogen fluoride		Listed
7664-38-2	664-38-2 Orthophosphoric Acid		Listed
7664-93-9	664-93-9 Sulfuric acid		Listed
111-76-2	2-Butoxyethanol		Listed
nnsylvania Rig	ht to Know:		
7664-39-3	Hydrogen fluoride		Listed
7664-38-2	Orthophosphoric Acid		Listed
7664-93-9	Sulfuric acid		Listed
111-76-2	2-Butoxyethanol		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; and Sulphur dioxide, which is known to the State of California to cause birth defects or other reproductive harm. 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:** 3-0-0-X

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End of Safety Data Sheet