

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Identification

Product form : Mixture
 Product name : SPOT CHECK
 Product code : GT74501

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Removes Mineral Deposits

1.3. Details of the supplier of the safety data sheet

Gliptone Manufacturing Inc.
 1740 Julia Goldbach Avenue
 Ronkonkoma, NY 11779 - United States of America
 T 1-631-285-7250 - F 1-631-589-5487
www.gliptone.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 International: 1-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

| | |
|-------------------------------------|--|
| Acute Tox. 3 (Oral) | H301 - Toxic if swallowed |
| Acute Tox. 3 (Dermal) | H311 - Toxic in contact with skin |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 - Harmful if inhaled |
| Skin Corr. 1A | H314 - Causes severe skin burns and eye damage |
| Eye Dam. 1 | H318 - Causes serious eye damage |
| Carc. 1A | H350 - May cause cancer |

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H301+H311 - Toxic if swallowed or in contact with skin
 H314 - Causes severe skin burns and eye damage
 H332 - Harmful if inhaled
 H350 - May cause cancer

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash ... thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301+P310 - If swallowed: Immediately call a poison center/doctor/...
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
 P302+P352 - If on skin: Wash with plenty of water/...
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
 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
 P310 - Immediately call a poison center/doctor/...
 P312 - Call a poison center/doctor/... if you feel unwell

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- P321 - Specific treatment (see ... on this label)
- P330 - Rinse mouth
- P361 - Take off immediately all contaminated clothing
- P363 - Wash contaminated clothing before reuse
- P405 - Store locked up
- P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|---|---------------------|--------|--|
| sulfuric acid, conc=93-99.5% | (CAS No) 7664-93-9 | 5 - 10 | Skin Corr. 1A, H314 Eye Dam. 1, H318 Carc. 1A, H350 |
| dodecylbenzenesulphonic acid | (CAS No) 27176-87-0 | 5 - 10 | Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 |
| hydrofluoric acid,71%=<conc=<75%,aqueous solution | (CAS No) 7664-39-3 | 1 - 5 | Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1A, H314 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a physician immediately.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash off immediately and plentifully with water for at least 20 minutes. Call a physician immediately. Wash clothing before re-using. Discard contaminated leather articles. Destroy contaminated shoes.
- First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person. Drink two glasses of water. Give milk to drink.

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

- Symptoms/injuries after skin contact : Burns. May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Serious damage to eyes.
- Symptoms/injuries after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Water fog.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable. Under fire conditions closed containers may rupture or explode.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

- Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact between the water and the product.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information

: Combustion produces irritating gases. Carbon oxides (CO, CO₂). Hydrogen fluoride. Nitric oxide/nitrogen dioxide. ammonia.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away.

6.1.1. For non-emergency personnel

Protective equipment : Use chemically protective clothing.

Emergency procedures : Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Eliminate ignition sources. Ensure adequate ventilation. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection"".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Corrosive substances, toxic: Liquid.

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from (strong) acids.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Discard contaminated leather articles.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Inspect frequently to identify any sign of warping or leak of the containers. No smoking.

Special rules on packaging : Always keep in containers made of the same material as the supply container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| sulfuric acid, conc=93-99.5% (7664-93-9) | | |
|--|-------------------------------------|-----------------------|
| ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 1 mg/m ³ |

hydrofluoric acid,71%=<conc=<75%,aqueous solution (7664-39-3)

| | | |
|-------|-----------------------|---|
| ACGIH | ACGIH TWA (ppm) | 0.5 ppm (Hydrogen fluoride, as F; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH | ACGIH Ceiling (ppm) | 2 ppm (Hydrogen fluoride, as F; USA; Momentary value; TLV - Adopted Value) |
| OSHA | OSHA PEL (TWA) (ppm) | 3 ppm |
| OSHA | OSHA PEL (STEL) (ppm) | 6 ppm |

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2. Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Hand protection | : Impermeable protective gloves. Wear long sleeves. Use protective clothing. |
| Eye protection | : Safety glasses. Contact lenses should not be worn. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : In case of insufficient ventilation, wear suitable respiratory equipment. |
| Environmental exposure controls | : Avoid release to the environment. |
| Other information | : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Color | : Colourless to Light yellow to pale brown |
| Odor | : Odourless to Irritating/pungent odour |
| Odor threshold | : No data available |
| pH | : 4.8 – 5.5 |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 104.4 °C |
| Flash point | : 98 °C |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Vapor pressure | : No data available |
| Relative density | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Solubility | : completely soluble. |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

9.2. Other information

| | |
|-------------|-------|
| VOC content | : 0 % |
|-------------|-------|

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Keep away from: strong acids, strong bases and oxidation agents.

10.6. Hazardous decomposition products

On contact with acid releases: Hydrogen fluoride.

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Likely routes of exposure : Skin contact.; Eyes contact.; Inhalation; Ingestion.
Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Harmful if inhaled.

| SPOT CHECK | |
|---------------------|---------------------------|
| ATE US (oral) | 245.283 mg/kg body weight |
| ATE US (dermal) | 250.000 mg/kg body weight |
| ATE US (dust, mist) | 2.500 mg/l/4h |

sulfuric acid, conc=93-99.5% (7664-93-9)

| | |
|---------------|---|
| LD50 oral rat | 2140 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) |
| ATE US (oral) | 2140.000 mg/kg body weight |

dodecylbenzenesulphonic acid (27176-87-0)

| | |
|---------------|-----------------------------------|
| LD50 oral rat | 650 mg/kg (Rat; Literature study) |
| ATE US (oral) | 650.000 mg/kg body weight |

hydrofluoric acid,71%=<conc<=75%,aqueous solution (7664-39-3)

| | |
|---------------------|-------------------------|
| ATE US (oral) | 5.000 mg/kg body weight |
| ATE US (dermal) | 5.000 mg/kg body weight |
| ATE US (gases) | 100.000 ppmV/4h |
| ATE US (vapors) | 0.500 mg/l/4h |
| ATE US (dust, mist) | 0.050 mg/l/4h |

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

sulfuric acid, conc=93-99.5% (7664-93-9)

| | |
|--|-----------------------------|
| IARC group | 1 - Carcinogenic to Humans |
| National Toxicology Program (NTP) Status | 2 - Known Human Carcinogens |

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Serious damage to eyes.

Symptoms/injuries after ingestion : Burns.

Other information : CNS depression. fluorosis. May occur.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Do not discharge into drains or the environment. Do not discharge into surface water.

sulfuric acid, conc=93-99.5% (7664-93-9)

| | |
|-------------------------|--|
| LC50 fish 1 | > mg/l >16 - <28,LC50; 96 h; Lepomis macrochirus; Static system; Fresh water |
| EC50 Daphnia 1 | > 100 mg/l (EC50; OECD 202: Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
| Threshold limit algae 1 | > 100 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value) |

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

dodecylbenzenesulphonic acid (27176-87-0)

| | |
|-------------------------|---|
| Threshold limit algae 2 | 127.9 mg/l (ErC50; Other; 72 h; Scenedesmus subspicatus; Static system) |
|-------------------------|---|

12.2. Persistence and degradability

sulfuric acid, conc=93-99.5% (7664-93-9)

| | |
|---------------------------------|--|
| Persistence and degradability | Biodegradability: not applicable. Hydrolysis in water. Biodegradability in soil: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |

dodecylbenzenesulphonic acid (27176-87-0)

| | |
|-------------------------------|---|
| Persistence and degradability | Readily biodegradable in water. Low potential for adsorption in soil. |
| Chemical oxygen demand (COD) | 2.41 g O ₂ /g substance |

hydrofluoric acid,71%=<conc<=75%,aqueous solution (7664-39-3)

| | |
|---------------------------------|--|
| Persistence and degradability | Biodegradability: not applicable. No (test)data on mobility of the components available. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |

12.3. Bioaccumulative potential

sulfuric acid, conc=93-99.5% (7664-93-9)

| | |
|---------------------------|----------------------------------|
| Bioaccumulative potential | Bioaccumulation: not applicable. |
|---------------------------|----------------------------------|

dodecylbenzenesulphonic acid (27176-87-0)

| | |
|---------------------------|--|
| Log Pow | 1.96 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

hydrofluoric acid,71%=<conc<=75%,aqueous solution (7664-39-3)

| | |
|---------------------------|----------------------------------|
| Log Pow | -0.9 (Calculated) |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

12.4. Mobility in soil

dodecylbenzenesulphonic acid (27176-87-0)

| | |
|-----------------|--------------------------|
| Surface tension | 35 N/m (25 °C; 800 mg/l) |
|-----------------|--------------------------|

hydrofluoric acid,71%=<conc<=75%,aqueous solution (7664-39-3)

| | |
|----------------|---|
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
|----------------|---|

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2922 Corrosive liquids, toxic, n.o.s., 8, II

UN-No.(DOT) : UN2922

Proper Shipping Name (DOT) : Corrosive liquids, toxic, n.o.s.

Hazard Classes (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard labels (DOT)

: 8 - Corrosive
6.1 - Poison



Packing group (DOT)

: II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 202

DOT Packaging Bulk (49 CFR 173.xxx)

: 243

DOT Symbols

: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102)

: B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx)

: 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

: 1 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

: 30 L

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other

: 40 - Stow "clear of living quarters"

Other information

: No supplementary information available.

TDG

No additional information available

Transport by sea

UN-No. (IMDG)

: 2922

Proper Shipping Name (IMDG)

: CORROSIVE LIQUID, TOXIC, N.O.S.

Class (IMDG)

: 8 - Corrosive substances

Packing group (IMDG)

: II - substances presenting medium danger

Air transport

UN-No.(IATA)

: 2922

Proper Shipping Name (IATA)

: CORROSIVE LIQUID, TOXIC, N.O.S.

Class (IATA)

: 8 - Corrosives

Packing group (IATA)

: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|---|------------------|---------|
| sulfuric acid, conc=93-99.5% | CAS No 7664-93-9 | 5 - 10% |
| hydrofluoric acid,71%=<conc=<75%,aqueous solution | CAS No 7664-39-3 | 1 - 5% |

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

sulfuric acid, conc=93-99.5% (7664-93-9)

Not listed on SARA Section 313 (Specific toxic chemical listings)
Listed on SARA Section 313 (Specific toxic chemical listings)

| | |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |
|--|---------|

| | |
|--|---------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb |
|--|---------|

dodecylbenzenesulphonic acid (27176-87-0)

Not listed on SARA Section 313 (Specific toxic chemical listings)

| | |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |
|--|---------|

hydrofluoric acid, 71%=<conc=<75%, aqueous solution (7664-39-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

| | |
|--------------------------|--|
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
|--------------------------|--|

| | |
|--|--------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 100 lb |
|--|--------|

| | |
|--|--------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | 100 lb |
|--|--------|

15.2. International regulations

CANADA

During the transition period (June 2015-June 2017), Canadian regulation requires that the supplier must provide a document that conforms to either *Controlled Products Regulations* (WHMIS 1988) or HPR (WHMIS 2015), and not a combination of both. This document conforms to the post June 2017 HPR (WHMIS 2015) for a specific controlled or hazardous product. The classification, label and (material) SDS fully complies with the specific regulation chosen by the supplier.

EU-Regulations

No additional information available

National regulations

sulfuric acid, conc=93-99.5% (7664-93-9)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

sulfuric acid, conc=93-99.5% (7664-93-9)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

dodecylbenzenesulphonic acid (27176-87-0)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

hydrofluoric acid, 71%=<conc=<75%, aqueous solution (7664-39-3)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

SPOT CHECK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 1 (Dermal) | Acute toxicity (dermal) Category 1 |
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhalation) Category 2 |
| Acute Tox. 2 (Oral) | Acute toxicity (oral) Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Carc. 1A | Carcinogenicity Category 1A |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| H300 | Fatal if swallowed |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H310 | Fatal in contact with skin |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H330 | Fatal if inhaled |
| H332 | Harmful if inhaled |
| H350 | May cause cancer |

NFPA health hazard

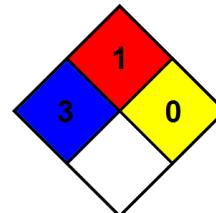
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Legend: ACGIH: American Conference of Governmental Industrial Hygienists

NIOSH: National Institute of Occupational Safety and Health

CAS: Chemical Abstract Services

DOT: Department of Transportation

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

N/Av: not available

OSHA: Occupational Safety and Health Administration

SARA: Superfund Amendments & Reauthorization Act

TLV: Threshold Limit Values

CFR: Code of Federal Regulations

EPA: Environmental Protection Agency

N/Ap: not applicable

NFPA: National Fire Protection Association

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TSCA: Toxic Substance Control Act

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product