

#### **SAFETY DATA SHEET**

#### WSR 3112 Scale Remover

### **Section 1. Identification**

GHS product identifier : WSR 3112 Scale Remover

Other means of identification

: Scale Remover

Product use : Not available.

Product type : Liquid.

**Manufacturer** : Jacam Manufacturing 2013, L.L.C.

P.O.Box 208, 1656 Ave. Q. Sterling, Kansas 67579

Validation date : 2/4/2016.

For Chemical Emergency
Spill, Leak Fire, Exposure or

**Accident:** 

: Call CHEMTREC Day or Night

Within USA and Canada 800-424-9300 CCN# 11754

**Or** +1 703-527-3887 (Collect calls accepted)

Direct all other calls to:

Jacam Chemicals 2013, L.L.C. 620-278-3355

Mon - Fri 8 a.m. to 5 p.m. (Closed on major holidays)

Supplier's details : Jacam Chemicals 2013, L.L.C.

P.O. Box 96, 205 S. Broadway Sterling, Kansas 67579

### Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 93.2%

#### **GHS label elements**

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### Section 2. Hazards identification

**Hazard pictograms** 





Signal word : Danger

**Hazard statements** : H226 - Flammable liquid and vapor.

H314 - Causes severe skin burns and eye damage.

**Precautionary statements** 

**General** : P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

**Prevention**: P280 - Wear protective gloves: > 8 hours (breakthrough time): nitrile rubber. Wear eye

or face protection: Recommended: chemical splash goggles and/or face shield.. Wear

protective clothing: Recommended: overall safety apron.

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

Sources. No smoking

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P233 - Keep container tightly closed.

P264 - Wash hands thoroughly after handling.

**Response** : P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Immediately call a POISON CENTER or physician.

P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON

CENTER or physician. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing

before reuse. Immediately call a POISON CENTER or physician.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or physician.

**Storage** : . - Store in accordance with all local, regional, national and international regulations.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

**Disposal**: P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise

classified

: None known.

**Routes of entry** : Dermal contact. Eye contact. Inhalation.

INGESTION: Although not a normal route of entry, ingestion is expected to be harmful.

DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.

**Target organs** : Contains material which may cause damage to the following organs: blood, kidneys, liver, spleen, lymphatic system, gastrointestinal tract, upper respiratory tract, skin, bone

marrow, central nervous system (CNS), eye, lens or cornea, teeth.

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### Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Other means of identification

: Scale Remover

#### **CAS** number/other identifiers

**CAS number** : Not applicable.

| Ingredient name                 | %       | CAS number |
|---------------------------------|---------|------------|
| Hydrochloric acid               | 10 - 30 | 7647-01-0  |
| Ethylene glycol monobutyl ether | 1 - 5   | 111-76-2   |
| Isopropyl alcohol               | 1 - 5   | 67-63-0    |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: If irritation persists, obtain medical attention. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: If irritation persists, obtain medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: If irritation persists, obtain medical attention. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: If irritation persists, obtain medical attention. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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### Section 4. First aid measures

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Severely irritating to respiratory tract.

Skin contact : Causes severe burns.

**Ingestion**: If swallowed, causes severe burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

Irritation of respiratory tract

If inhaled deeply, edema of the lungs may occur.

Central Nervous System depression

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

Gastrointestinal tract may perforate in extreme cases.

Central Nervous System depression

collapse, coma and death

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

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# Section 5. Fire-fighting measures

**Additional Vapor Statement** 

: Not available.

Not available.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

halogenated compounds

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

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

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only nonsparking tools. Take precautionary measures against electrostatic discharges. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Advice on general** occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in accordance with all local, regional, national and international regulations. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

| Ingredient name                                    | Exposure limits   |
|--|---|
| Hydrochloric acid  Ethylene glycol monobutyl ether | ACGIH TLV (United States, 4/2014). C: 2 ppm OSHA PEL 1989 (United States, 3/1989). CEIL: 5 ppm CEIL: 7 mg/m³ NIOSH REL (United States, 10/2013). CEIL: 5 ppm CEIL: 7 mg/m³ OSHA PEL (United States, 2/2013). CEIL: 5 ppm CEIL: 7 mg/m³ OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 120 mg/m³ 8 hours. NIOSH REL (United States, 10/2013). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m³ 10 hours. ACGIH TLV (United States, 4/2014). TWA: 20 ppm 8 hours. OSHA PEL (United States, 2/2013). |
|  | Absorbed through skin.  |

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### Section 8. Exposure controls/personal protection

TWA: 50 ppm 8 hours. TWA: 240 mg/m<sup>3</sup> 8 hours. Isopropyl alcohol

ACGIH TLV (United States, 4/2014).

TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 400 ppm 8 hours. TWA: 980 mg/m<sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m3 15 minutes. NIOSH REL (United States, 10/2013).

TWA: 400 ppm 10 hours. TWA: 980 mg/m<sup>3</sup> 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m3 15 minutes.

OSHA PEL (United States, 2/2013).

TWA: 400 ppm 8 hours. TWA: 980 mg/m<sup>3</sup> 8 hours.

**Appropriate engineering** controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: chemical splash goggles and/or face shield.

**Skin protection Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber

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### Section 8. Exposure controls/personal protection

**Body protection** 

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: overall safety apron

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: nitrile rubber

**Respiratory protection** 

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Personal protective equipment (Pictograms)



# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Clear.]

Color : Straw.

Odor : Not defined

Odor threshold : Not available.

pH : 0.01 to 1

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: 48.889°C (120°F) [Pensky-Martens.]

**Evaporation rate** : Not available.

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge and heat.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : Not available.

Vapor density : >1 [Air = 1]

Relative density : 1.05 to 1.09

**Density** : 8.76 to 9.1 (lbs/gal)

**Solubility** : Easily soluble in the following materials: cold water.

Partition coefficient: n-octanol/

water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

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: 1.03

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### Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials

: Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis

oxidizing materials

Hazardous decomposition products

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

### Section 11. Toxicological information

# Information on toxicological effects Acute toxicity

| Product/ingredient name         | Result               | Species | Dose        | Exposure |
|---------------------------------|----------------------|---------|-------------|----------|
| Ethylene glycol monobutyl ether | LC50 Inhalation Gas. | Rat     | 450 ppm     | 4 hours  |
|                                 | LD50 Dermal          | Rabbit  | 220 mg/kg   | -        |
|                                 | LD50 Oral            | Rat     | 250 mg/kg   | -        |
| Isopropyl alcohol               | LD50 Dermal          | Rabbit  | 12800 mg/kg | -        |
|                                 | LD50 Oral            | Rat     | 5000 mg/kg  | -        |

| Irritation/Corrosion            |                          |         |       |                             |              |
|---------------------------------|--------------------------|---------|-------|-----------------------------|--------------|
| Product/ingredient name         | Result                   | Species | Score | Exposure                    | Observation  |
| Hydrochloric acid               | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes<br>5 milligrams | -            |
|                                 | Skin - Mild irritant     | Human   | -     | 24 hours 4<br>Percent       | -            |
| Ethylene glycol monobutyl ether | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams     | -            |
|                                 | Eyes - Severe irritant   | Rabbit  | -     | 100<br>milligrams           | -            |
|                                 | Skin - Mild irritant     | Rabbit  | -     | 500<br>milligrams           | -            |
| Isopropyl alcohol               | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams     | -            |
|                                 | Eyes - Moderate irritant | Rabbit  | -     | 10 milligrams               | <del>-</del> |
|                                 | Eyes - Severe irritant   | Rabbit  | -     | 100<br>milligrams           | -            |
|                                 | Skin - Mild irritant     | Rabbit  | -     | 500<br>milligrams           | -            |

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# **Section 11. Toxicological information**

**Sensitization** 

Product/ingredient name Route of Species Result

exposure

Not available.

**Mutagenicity** 

Product/ingredient name Test Experiment Result

Not available.

**Carcinogenicity** 

Product/ingredient name Result Species Dose Exposure

Not available.

Classification

Product/ingredient name OSHA IARC NTP

Hydrochloric acid - 3 - Ethylene glycol monobutyl ether - 3 -

Isopropyl alcohol

Reproductive toxicity

Product/ingredient name Maternal Fertility Development Species Dose Exposure

1

toxicity toxin

Not available.

**Teratogenicity** 

Product/ingredient name Result Species Dose Exposure

Not available.

Specific target organ toxicity (single exposure)

Name Category Route of Target organs exposure

Isopropyl alcohol Category 3 Not applicable. Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Name Result

Not available.

Information on the likely ToxKinetics - routes of

exposure

: Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Severely irritating to respiratory tract.

Skin contact : Causes severe burns.

Date of issue/Date of revision 2/4/2016. People + Products 

→ Performance™ Version : 1.03

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# Section 11. Toxicological information

Ingestion : If swallowed, causes severe burns to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

Irritation of respiratory tract

If inhaled deeply, edema of the lungs may occur.

Central Nervous System depression

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

Gastrointestinal tract may perforate in extreme cases.

Central Nervous System depression

collapse, coma and death

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

| Route               | ATE value     |
|---------------------|---------------|
| Oral                | 15695.6 mg/kg |
| Dermal              | 2735.9 mg/kg  |
| Inhalation (vapors) | 27.36 mg/l    |

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### Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name         | Result  | Species   | Exposure             |
|---------------------------------|---|---|----------------------|
| Hydrochloric acid               | Acute LC50 240000 μg/l Marine water                             | Crustaceans - Carcinus<br>maenas - Adult              | 48 hours             |
|                                 | Acute LC50 282 ppm Fresh water                                  | Fish - Gambusia affinis - Adult                       | 96 hours             |
| Ethylene glycol monobutyl ether | Acute EC50 >1000 mg/l Fresh water                               | Daphnia - Daphnia magna                               | 48 hours             |
|                                 | Acute LC50 800000 µg/l Marine water                             | Crustaceans - Crangon crangon                         | 48 hours             |
|                                 | Acute LC50 1250000 µg/l Marine water                            | Fish - Menidia beryllina                              | 96 hours             |
| Isopropyl alcohol               | Acute LC50 1400000 µg/l Marine water<br>Acute LC50 1400000 µg/l | Crustaceans - Crangon crangon Fish - Gambusia affinis | 48 hours<br>96 hours |

Conclusion/Summary : Not available.

#### Persistence and degradability

Not available.

#### **Product/ingredient name**

Not available.

#### Product/ingredient name

Not available.

| Bioaccumulative potential                         |              |     |            |
|---|--------------|-----|------------|
| Product/ingredient name                           | LogPow       | BCF | Potential  |
| Ethylene glycol monobutyl ether Isopropyl alcohol | 0.81<br>0.05 | -   | low<br>low |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues

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# Section 13. Disposal considerations

may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

| Regulatory information | UN/NA<br>Number | Proper shipping name  | Hazard<br>Class(es) | PG*       |
|------------------------|-----------------|---|---------------------|-----------|
| DOT Classification     | on              |   | PG* : Pack          | ing group |
|                        | UN2920          | Torrosive Liquid, Flammable, N.O.S. (Hydrochloric acid, Isopropanol) RQ (Hydrochloric acid) | 8 (3)               | П         |

**Additional information** 

#### **Emergency Response Guide (ERG): 132**

### Reportable quantity

32175.5 lbs / 14607.7 kg [3606.5 gal / 13652 L]

Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

#### Label





#### **TDG**

### Classification

UN2920 Forrosive Liquid, Flammable, N.O.S. (Hydrochloric acid, 8 (3) II Isopropanol)

#### **Additional information**

Label





#### **IMDG Class**

UN2920 Forrosive Liquid, Flammable, N.O.S. (Hydrochloric acid, 8 (3) II Isopropanol)

#### Marine pollutant notes:

Not available.

#### **Additional information**

| Date of issue/Date of revision | 2/4/2016. | People + Products ⇒ Performance <sup>™</sup> | Version | : 1.03 |
|--------------------------------|-----------|--|---------|--------|
|                                |           |  |         |        |

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# **Section 14. Transport information**

#### Label





#### **IATA-DGR Class**

UN2920 Corrosive Liquid, Flammable, N.O.S. (Hydrochloric acid, 8 (3) II Isopropanol)

#### **Additional information**

. .

#### Label





# Section 15. Regulatory information

U.S. Federal regulations :

: TSCA 8(a) PAIR: Proprietary

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Not determined.

Clean Water Act (CWA) 311: Hydrochloric acid

Clean Air Act (CAA) 112 regulated flammable substances: Hydrochloric acid

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Listed

**Clean Air Act Section 602** 

**Class I Substances** 

: Not listed

**Clean Air Act Section 602** 

Class II Substances

: Not listed

**DEA List I Chemicals** 

.

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Listed

(Essential Chemicals)

#### **SARA 302/304**

#### Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

**SARA 311/312** 

Classification : Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

Date of issue/Date of revision 2/4/2016. People + Products ⇒ Performance™ Version : 1.03

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### Section 15. Regulatory information

#### **Composition/information on ingredients**

| Name                            | %       | Fire<br>hazard | Sudden release of pressure | Reactive | Immediate<br>(acute) health<br>hazard | Delayed<br>(chronic)<br>health hazard |
|---------------------------------|---------|----------------|----------------------------|----------|---------------------------------------|---------------------------------------|
| Hydrochloric acid               | 10 - 30 | No.            | No.                        | No.      | Yes.                                  | Yes.                                  |
| Ethylene glycol monobutyl ether | 1 - 5   | No.            | No.                        | No.      | Yes.                                  | No.                                   |
| Isopropyl alcohol               | 1 - 5   | Yes.           | No.                        | No.      | Yes.                                  | Yes.                                  |

#### **SARA 313**

|                                 | Product name                    | CAS number | %       |
|---------------------------------|---------------------------------|------------|---------|
| Form R - Reporting requirements | Hydrochloric acid               | 7647-01-0  | 10 - 30 |
|                                 | Ethylene Glycol Monobutyl Ether | 111-76-2   | 1 - 5   |
|                                 | Isopropanol                     | 67-63-0    | 1 - 5   |
| Supplier notification           | Hydrochloric acid               | 7647-01-0  | 10 - 30 |
|                                 | Ethylene Glycol Monobutyl Ether | 111-76-2   | 1 - 5   |
|                                 | Isopropanol                     | 67-63-0    | 1 - 5   |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Massachusetts : The following components are listed: HYDROGEN CHLORIDE;

2-BUTOXYETHANOL; ISOPROPYL ALCOHOL

New York : The following components are listed: Hydrochloric acid

New Jersey : The following components are listed: HYDROGEN CHLORIDE; HYDROCHLORIC

ACID; 2-BUTOXY ETHANOL; BUTYL CELLOSOLVE; ISOPROPYL ALCOHOL;

2-PROPANOL

Pennsylvania: The following components are listed: HYDROCHLORIC ACID; ETHANOL,

2-BUTOXY-; 2-PROPANOL

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### **Rotterdam Convention on Prior Inform Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### Canada

WHMIS (Canada) : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C

(200°F).

Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

Class D-2A: Material causing other toxic effects (Very toxic).

Class E: Corrosive material

#### **Canadian lists**

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# Section 15. Regulatory information

**Canadian NPRI** 

(Pollution Release)

The following components are listed: Hydrochloric acid; 2-Butoxyethanol; Isopropyl alcohol

**CEPA Toxic substances** 

The following components are listed: 2-butoxyethanol

Canada inventory-DSL / NDSL

**International lists** 

Not determined.

**National inventory Australia** 

Not determined. Canada Not determined. China Not determined. **Europe** Not determined. **Japan** Not determined. Malaysia Not determined. **New Zealand** Not determined. **Philippines** Not determined. Republic of Korea Not determined. **Taiwan** Not determined.

### Section 16. Other information

#### **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Normal Package Size(s):** Ball: 2" Ball 50/Cooler; 4" Ball 12/Cooler

> Dry Product: 50 Lbs/Box Liquid: 5 Gallon/55 Gallon/Bulk Pellets: 30 Lbs/Cooler; 24 Lbs/Pail Stix: 1 1/4": 50 Each/Cooler

**History** 

: 2/4/2016. Date of issue/Date of revision

> 1.03 **Version**

Date of previous issue : 2/4/2016. **Previous Validation Date** 2/4/2016.

**Prepared by** Jacam Regulatory Department

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### Section 16. Other information

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

References : Not available.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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\*\*\* END OF SDS \*\*\*