



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Manufacturer: Ver-tech Solutions & Service 6801 Bleck Drive Rockford, MN 55373 763-577-4050 | Product Name: Glass Clean RTU Product Code: VSS186 Recommended Use: Glass cleaner Revision Date: 5/19/2015 |
|---|---|

Chemical Emergency: Infotrac: 1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Classification

| | |
|----------------------|------------|
| Flammable Liquid | Category 3 |
| Serious Eye Irritant | Category 2 |

Signal Word

WARNING!



Hazard Statements

Flammable liquid and vapor
 Causes serious eye irritation

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces – No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting equipment
 Keep only in original container
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Wear eye protection and protective gloves
 Wash thoroughly after handling

Precautionary Statements - Response

IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water/shower
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

SECTION 3: INFORMATION ON HAZARDOUS INGREDIENTS

Product is a mixture according to 29 CFR 1910.1200.

Hazardous Components

| Hazardous Ingredients | Cas # | Weight % |
|-----------------------|--------------|----------|
| Isopropyl alcohol | 67-63-0 | 5.0% |
| 2-butoxyethanol | 111-76-2 | < 3% |
| Ammonium hydroxide | 1336-21-6 | < 1% |
| Proprietary Blend | Trade Secret | < 2% |

Specific chemical identity and/or exact percentage of components has been withheld in accordance with a trade secret claim according to Appendix E 29 CFR 1910.1200.

SECTION 4: FIRST-AID MEASURES

First Aid Measures

General Advice: Harmful or fatal if swallowed. Wear eye protection when handling this product. Keep out of reach of children. Use with care.

- Eye Contact:** Immediately flush with cool running water for at least 15 minutes while holding eyelids apart. Do not rub affected area. Remove contact lenses if applicable.
- Skin Contact:** Wash off immediately with soap and water while removing all contaminated clothes and shoes.
- Ingestion:** If swallowed, call immediately for emergency medical assistance. DO NOT induce vomiting. Rinse mouth with water and drink 1-2 glasses of water. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove to fresh air.

Most Important Symptoms and Effects

Symptoms: Eye irritant.

Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES**Flammable Properties**

- Flammability:** Considered to be a fire hazard
- Explosive Prop:** No information available.

Extinguishing Media

- Suitable:** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- Unsuitable:** Water may be ineffective.

Specific Hazards Arising from Chemical

Hazards: Thermal decomposition may lead to release of irritating vapors. In the event of fire and/or explosion do not breathe fumes.

Protective equipment and precautions for fire-fighters

Fire-Fight Method: In the event of a fire, 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: Evacuate personnel to safe areas. Isolate hazard area and deny entry. Stay upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes or clothing.

Environ. Precautions: Prevent release to the environment if possible. Dike large spills to prevent material from entering streams or sewer systems.

Clean-Up Method: Soak-up with inert absorbent material and place into appropriate container for disposal. Clean contaminated area thoroughly with water. Prevent product from entering drains.

SECTION 7: HANDLING AND STORAGE

Handling: Use personal protective equipment when needed. Avoid contact with skin, eyes, and clothing. Wash hands before eating, drinking, or smoking. Remove contaminated clothes and wash before reuse. Use in a ventilated area.

Storage: Store in closed containers in cool, dry, well-ventilated area. Avoid overheating or freezing. Keep in properly labeled containers and out of reach of children.

Incomp. Materials: Strong acids and bases. Oxidizing agents. Reducing agents. Amines, Ammonia. Ethylene oxide. Chlorine.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Guidelines**

| Hazardous Chemical | TLV - TWA | TLV - STEL |
|--------------------|--------------------------|--------------------------|
| Isopropyl alcohol | 400 ppm | 400 ppm |
| 2-butoxyethanol | 50 ppm | 20 ppm |
| Ammonium hydroxide | No information available | No information available |
| Proprietary Blend | No information available | No information available |

Appropriate Engineering Controls

Eng. Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protection Equipment (PPE)

Eyes: Recommend safety goggles or shield.
Respiratory: Not usually necessary where ventilation is sufficient to maintain vapors under the TLV limit.
Skin: Avoid skin contact. Recommend chemical resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--------------------------|--------------------|----------------------------|----------------|
| Physical State: | Liquid | Freezing Point: | Not determined |
| Appearance: | Clear liquid | Boiling Point: | Not determined |
| Color: | Colorless | Evaporation Rate: | Not determined |
| Odor: | Alcohol-like | Vapor Pressure: | Not determined |
| Odor Threshold: | Not determined | Vapor Density: | Not determined |
| pH: | 10 - 11 | Relative Density: | Not determined |
| Flash Point: | 114° F, closed cup | Flammability: | Not determined |
| Water Solubility: | Soluble in water | Explosive Limits: | Not determined |
| Viscosity: | Not determined | Part. Coefficient: | Not determined |
| Specific Gravity: | 0.99 | Auto-ignition Temp: | Not determined |
| Melting Point: | Not determined | Decomp. Temp: | Not determined |

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.
Haz. Decomposition: Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Haz. Polymerization: No information available.
Incompatibilities: Strong acids and bases. Oxidizing agents. Reducing agents. Amines, Ammonia. Ethylene oxide. Chlorine.
Conditions to Avoid: Heat, moisture and incompatibles.

SECTION 11: TOXICOLOGY INFORMATION

Component Information

| Hazardous Chemical | LD50 Oral | LD50 Dermal |
|--------------------|--------------------------|--------------------------|
| Isopropyl alcohol | 5000 mg/kg (rat) | 12800 mg/kg (rabbit) |
| 2-butoxyethanol | 1300 mg/kg (rat) | > 2000 mg/kg (rat) |
| Ammonium hydroxide | 350 mg/kg (rat) | No information available |
| Proprietary Blend | No information available | No information available |

Potential Health Effects

Exposure Routes: Eye Contact, Dermal Contact, Ingestion, Inhalation
Acute Toxicity:
Eyes: Causes eye irritation with tearing, redness, and impaired vision.
Skin: Causes skin irritation, redness, and itching. May cause chemical burns.
Ingestion: Harmful if swallowed. Corrosive to mucous membranes, esophagus and stomach.
Inhalation: Respiratory irritant.
Chronic Effects: Avoid repeated exposure. May aggravate pre-existing medical conditions including eye, skin and respiratory disorders.
Carcinogenicity: Not classifiable as a human carcinogen by OSHA, NTP or IARC.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

| Hazardous Chemical | Toxicity to Fish | Toxicity to Invertebrates |
|--------------------|---------------------------------------|------------------------------|
| Isopropyl alcohol | 1000 ppm (96 h: fathead minnow) | 1000 ppm (96 h: Daphnia) |
| 2-butoxyethanol | 1474 mg/l (96 h: Oncorhynchus mykiss) | 1500 mg/l (48 h: water flea) |
| Ammonium hydroxide | No information available | No information available |
| Proprietary Blend | No information available | No information available |

Environmental Toxicity

Biodegradation: No information available.

Persistence: No information available.
Bioaccumulation: No information available.
Mobility: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Recover or recycle if possible. Disposal should be in compliance with applicable federal, state, and local regulations. Do not dispose of in the environment, in sewage, and/or in drains.
Container: Drain contaminated container thoroughly. Triple rinse containers.

SECTION 14: TRANSPORT INFORMATION

Transport in accordance with all federal, state, and local regulations.

DOT

Proper Name: NA
Hazard Class: NA
UN Number: NA
Packing Group: NA
Special Provisions: 173.150 Exceptions for Class 3 (flammable and combustible liquids). (f) Combustible liquids. (1) A flammable liquid with a flash point at or above 100° F that does not meet the definition of any other hazard class may be reclassified as a combustible liquid 173.150 (f)(1).

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All components of this product are listed or exempt from listing on TSCA inventory.
CERCLA Reportable Quantity: Ammonium hydroxide, 1000 lbs.

Section 311/312 Hazard Category

| | |
|------------------------------------|-----|
| Acute Health Hazard: | Yes |
| Chronic Health Hazard: | Yes |
| Fire Hazard: | Yes |
| Sudden Release of Pressure: | No |
| Reactive Hazard: | No |
| Section 313 Toxic Chemicals | Yes |

SECTION 16: OTHER INFORMATION

Prepared by: Health and Safety Department
Contact Number: 763-577-4050
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Revision Note: MSDS converted to GHS compliant SDS format
Version: 1
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End of Safety Data Sheet