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Xhaust & Soot Remover™ Safety Data Sheet

1. IDENTIFICATION

Product Name: Xhaust & Soot Remover™
Product Numbers: 83001, 83002, 83004, 83005
Product Type and Use: Cleaner / Degreaser
Manufacturer: U.S. Corrosion Technologies, LLC
2638 National Drive, Garland, TX 75041
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2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)

Skin Irritation Category 2
Eye Irritation Category 2B
Acute Toxicity - Inhalation Category 4
Acute Toxicity - Oral Category 4
STOT-SE Category 3

Physical Hazard(s)

None

Hazard(s) not otherwise classified

None

Labeling

Signal Word: WARNING
Pictograms: Exclamation mark, Health Hazard

Statements of Hazard

Hazard Statements

Causes skin and eye irritation
Harmful if inhaled or swallowed
May cause respiratory irritation

Precautionary Statements

Wear protective gloves. Wash thoroughly after handling. Avoid breathing vapors, spray or mist. Use only outdoors or in a well-ventilated area. Take off contaminated clothing and wash it before reuse. Dispose of contents and container in accordance with applicable regulations.
If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.
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 attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
If swallowed: Rinse mouth. Call a doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Percent by Wt. |
|-------------------------------|--------------|----------------|
| 2-Butoxyethanol | 111-76-2 | 1-5* |
| Sodium Metasilicate | 6834-92-0 | 1-5* |
| Ethoxylated alcohol phosphate | Trade Secret | 1-5* |

* Exact percentage of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice: Causes skin and eye irritation. May be absorbed through the skin; avoid contact. Do not swallow. Avoid breathing vapor, spray or mist. Use with adequate ventilation. Keep container closed.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

Skin Contact: Remove contaminated clothing. Wash with plenty of water. If skin irritation occurs: get medical attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention

Ingestion: Do not give anything by mouth to an unconscious person. Do not induce vomiting unless advised to do so by a doctor or poison control center. Rinse mouth. Call a doctor if you feel unwell.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Product does not support combustion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Suitable: Carbon Dioxide, Dry Chemical, and Foam

Unsuitable: Alcohol, Alcohol based solutions

Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire-exposed containers with water spray.

Unusual Fire and Explosion Hazards: Flammable hydrogen gas may be produced on contact with tin, lead and zinc.

Hazardous Combustion/ Decomposition Products: Oxides of carbon, phosphorous, sulfur and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions / Protective Equipment / Emergency Procedures: Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

Methods and materials for containment and cleaning up: Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer liquid to plastic containers. Do not store or dispense into metal containers; especially aluminum. Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for recovery or disposal according to local / national regulations.

7. HANDLING AND STORAGE

HANDLING

Precautions for Safe Handling: Avoid skin and eye contact. Use with adequate ventilation. The headspace of unopened containers and empty containers may contain trace amounts of ethylene oxide. Avoid breathing vapor and mist. Follow all SDS/label precautions.

STORAGE

Conditions to avoid: Store in a cool, dry, well-ventilated place in the original container. Separate from acids, reactive metals, and ammonium salts. Do not store or transfer in fiberglass, copper, brass, zinc or galvanized containers. Keep container closed when not in use. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Component | ACGIH | | OSHA | | STEL ppm | STEL mg/m3 |
|-------------------------------|------------|--------------|------------|--------------|-------------|---------------|
| | TLV ppm | TLV mg/m3 | PEL ppm | PEL mg/m3 | | |
| 2-Butoxyethanol | 20 (Skin) | - | 50 | 240 | - | - |
| Sodium Metasilicate | - | 2** | - | - | - | - |
| Ethoxylated alcohol phosphate | - | - | - | - | - | - |
| Ethylene Oxide | 1 | - | - | - | - | 9 |

**Manufacturers recommended exposure limit

Engineering Controls: Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protection

Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation, wear a suitable NIOSH approved air purifying respirator.

Hand / Skin Protection: Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent of exposure.

Eye / Face Protection: Safety glasses with side-shields.

General Hygiene Measures: Avoid contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. An eyewash station and washing facilities should be readily accessible to the area of use. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|--------------------|------------------------------------|----------------|
| Appearance: | Transparent | Autoignition Temperature: | Not applicable |
| Physical State: | Non-viscous liquid | Volatile by volume (%): | 92 |
| Odor: | Pleasant | Vapor Density (Air=1): | 1 |
| Color: | Light Green | Evaporation Rate (BuAc= 1): | <1 |
| Viscosity, cSt @ 40°C: | Not established | Vapor Pressure, mmHg @23°C: | 21.1 |
| cSt @ 100°C: | Not established | Solubility in water: | Complete |
| pH: | 11.2-11.4 | Octanol/Water Partition | |
| Boiling Point/ Range: | >200°F / 93°C | 2-Butoxyethanol log Kow | 0.81 |
| Melting Point: | >32°F / 0°C | VOC Content (g/L) (%): | 50 (5) |
| Flash Point: | Non-flammable | Specific Gravity @15.6°C: | 1.02 |
| Method: | Not applicable | Pour Point: | >32°F / 0°C |
| Lower Explosive Limit, vol %: | Hydrogen, 4 | Non-volatile by Volume (%): | 8 |
| Upper Explosive Limit, vol %: | Hydrogen, 75 | Dielectric Strength: | Not applicable |

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: None known

Hazardous Polymerization: Will not occur.

Materials to Avoid: Reactive metals, glass, oxidizing agents, acids. May react with ammonium salt solutions resulting in evolution of ammonia gas. Carbon monoxide gas may be produced on contact with reducing sugars.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: Not established

Ingredient Information

2-Butoxyethanol: Orl-Rat LD50 - 470 mg/kg, Skn-Rbt LD50 - 220 mg/kg, Ihl-Rat LC50 - 450 ppm 4 h

Sodium metasilicate: Orl-Rat LD50 - 600 mg/kg

Ethoxylated alcohol phosphate: Orl-Rat LD50 - 15,300 mg/kg (estimated), Skn-Rbt LD50 - 27,400 mg/kg (estimated)

Acute Effects

Signs and Symptoms of Overexposure: Skin and eye irritation, Coughing, Sneezing

Inhalation: Vapor and mist may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing.

Skin Contact: May cause redness, tearing and itching. May be absorbed through skin in harmful amounts.

Eye Contact: May cause tearing and redness.

Ingestion: May cause, nausea, vomiting and diarrhea.

Primary Route(s) of Exposure: Eyes, Skin, Inhalation

Primary Route(s) of Entry: Inhalation, Ingestion, Skin Contact

Target Organs: Liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system

Chronic Effects

2-Butoxyethanol Target Organ Effects: liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system

Carcinogenicity: 2-Butoxyethanol: ACGIH A3 IARC Group 3; Not classifiable as to its carcinogenicity to humans**Medical Conditions Aggravated by Exposure:** May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.**12. ECOLOGICAL INFORMATION****Product Data:** Not established**Ingredient Data**

2-Butoxyethanol: Toxicity to Fish LC50 = 1490 mg/L Lepomis macrochirus 96 h, Water Flea EC50 1698 - 1940 mg/L 24 h Daphnia magna, 1000 mg/L 48 h Daphnia magna

Sodium metasilicate: Toxicity to Fish LC50 = 210 mg/L Brachydanio rerio 96 h, Water Flea EC50 216 mg/L 96 h Daphnia magna

Elimination Information: 2-Butoxyethanol: log Kow 0.81**13. DISPOSAL CONSIDERATIONS****Product:** Dispose of in accordance with local regulations.**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.**14. TRANSPORT INFORMATION****Road Transport****DOT Hazard Class:** Non-Regulated**Sea Transport****IMDG/GGV See Class:** Non-Regulated**Air Transport****ICAO/IATA Class:** Non-Regulated**15. REGULATORY INFORMATION****U.S. Federal Regulations****Toxic Substances Control Act (TSCA):** All components are included on the Inventory**Superfund Amendments and Reauthorization Act (SARA) Title III:**

| Immediate Hazard | Delayed Hazard | Fire Hazard | Pressure Hazard | Reactivity Hazard |
|------------------|----------------|-------------|-----------------|-------------------|
| X | X | - | - | - |

16. OTHER INFORMATION**Prepared by:** U.S. Corrosion Technologies, LLC Technical Services Department**Revision Date:** 10/20/2015**Supersedes Date:** 9/3/2015**Revision Indicator:** 1.1 Revised Unusual Fire and Explosion Hazards, Storage Conditions to Avoid, and Stability and Reactivity Materials to Avoid sections

National Fire Protection Association (704)

Health: 1 Flammability: 1 Reactivity: 0 Other: -

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: U. S. Corrosion Technologies, LLC (972) 271-7361.