



# MATERIAL SAFETY DATA SHEET

Conforms to EU Directive 91/155

## 1 IDENTIFICATION OF SUBSTANCE



### PRODUCT DETAILS

TRADE NAME: ENVIRO-4ONS  
PRODUCT CODE: ENVIRO-4ONS

#### Manufacturer/Supplier:

EnroChem Trading DMCC  
Jewellery & Gemplex Building  
DMCC, Dubai

Tel: +971 50 376 8098

E-mail: max@enrochemtrading.com

**Emergency contact: Max Roux**

Office hours: +2782 574 2400

## 2 COMPOSITION/INFORMATION ON COMPONENTS



CAS No. N/A - Proprietary Blend with Isopropyl Alcohol (CAS-IPA: 67-63-0)  
Synonyms: Fatty Alcohol Polyglycol Ether in Alcohol

## 3 HAZARDS IDENTIFICATION



### EMERGENCY OVERVIEW

**Irritant:** Irritating to eyes, respiratory system, and skin.

**Flammable:** For Risk and Safety Phrases, see Section 15.

For additional information on toxicity, please refer to Section 11.

## 4 FIRST AID MEASURES



**Eye Exposure:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes while holding eyelids open. Get prompt medical attention.

**Dermal Exposure:** In case of contact, immediately flush skin with copious amounts of water and soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention. Do not reuse clothing or shoes until thoroughly cleaned.

**Inhalation Exposure:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Get prompt medical attention.

**Oral Exposure:** Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 Tablespoons) syrup of IPECAC\*. If IPECAC is not available, give two glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get prompt medical attention.

**Note to Physician:** If victim is a child, give no more than 1 glass of water and 15 cc (1 Tablespoon) syrup of IPECAC. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.



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## 5 FIRE FIGHTING MEASURES



**Flash Point:** ca. > 190°C

**Flammable Limits:** Lower flammability limit in Air(v/v): ± 3%

**Extinguishing Media:** Use alcohol type foam, universal foam, dry chemical, carbon dioxide or water spray to extinguish fire.

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**Firefighting Procedures:** Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Empty drums should be completely drained, properly bunged and promptly returned to drum reconitioner, or properly disposed of.

**Sensitive to Static Discharge:** Unknown, use proper grounding procedure.

**Explosion Potential:** The presence of Isopropyl alcohol as a diluent cum cosurfactant/hydro trope means that under severe conditions of impact or high temperature or open flames without sufficient ventilation, there may be a possibility of explosive conditions prevailing.

## 6 ACCIDENTAL RELEASE MEASURES



**Small Spill:** For small spill, take up material with an absorbent such as clay or sand and dispose of properly. Flush area with water to remove trace residue.

**Large Spill:** Wear respirator and protective clothing as appropriate. Shut off source of leak if it is safe to do so. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/savage containers. Soap up residue with an absorbent such as clay, sand, or other suitable material. Flush area with water to remove trace residue. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### ENVIRONMENTAL PRECAUTIONS

**Water Spill:** Remove from surface by skimming or with suitable adsorbents. If allowed by local authorities. And environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**Land Spill:** Eliminate sources of ignition. Prevent additional discharge of material. if possible, to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15) notify the National Response Centre.



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## 7 HANDLING AND STORAGE



### HANDLING

**General Procedures:** Keep container closed. Handle and open container with care. Store in a cool, well vented location. Place away from incompatible materials. Do NOT handle or store near an open flame or heat or other sources of ignition. Protect material from direct sunlight. It is not known if this material is a static accumulator. Therefore, use proper grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

**Storage Temperature:** 18°C minimum to 32°C maximum.

**Loading Temperature:** 18°C minimum to 40°C maximum.

**Loading/ Unloading Viscosity:** -10 to 50 CPS.

**Special Sensitivity:** It is recommended to store this product with a nitrogen blanket to minimize the potential for ethoxylate oxidation. Overheating of an ethoxylate stored with air should be avoided. When an ethoxylate is vigorously mixed in the presence of air or oxygen at temperatures > 40°C, it can undergo exothermic oxidative degradation.

**Electrostatic Accumulation Hazard:** Unknown, use proper grounding procedure.

**Materials/ Coatings Unsuitable:** Aluminum, copper, copper alloys.

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

### STORAGE

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition [spark or flame].

## 8 EXPOSURE CONTROLS & PERSONAL PROTECTION



### ENGINEERING CONTROLS

Ventilation should be provided to control worker exposure and prevent health risk.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory:** Use a NIOSH-Approved respirator as required to prevent overexposure. In accord with 20CFR 1910.134, use either atmosphere-supplying or air-purifying respirator for organic vapors. For EO: If occupational exposure may or does exceed 1 ppm, respiratory protection is required. Use a NIOSH-Approved, atmosphere-supplying, full face piece respirator in pressure demand mode > 50 ppm. NIOSH has approved a full facepiece canister respirator with an end of service life indicator for >50 ppm.

## 9 PHYSICAL & CHEMICAL PROPERTIES



**Physical State:** Liquid

**Odour:** Mild odour

**Appearance:** Liquid

**Colour:** Colourless to pale yellow

**Boiling Point:** > 82°C

**Flash Point :** > 190°C

**Water Solubility:** Dispersion



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## 10 STABILITY & REACTIVITY



**Stable:** Yes.

**Hazardous Polymerization:** No.

**Stability:** N/A

**Polymerization:** N/A

**Conditions to Avoid:** Oxidation of alcohol ethoxylates may occur under certain conditions. Avoid overheating (temperatures > 40°C) especially when vigorously mixed with air. See special precautions.

**Hazardous Decomposition:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**Incompatible materials:** Copper, Copper alloys, Aluminum. Avoid contact with Strong Oxidizing Acids, as well as compounds such as, Permanganates, Chromates and Peroxides.

## 11 TOXICOLOGICAL INFORMATION



This product is expected to have the following toxicity based on comparison to similar products.

### ACUTE ORAL TOXICITY

**Moderate Toxicity:** LD50 1.4 mg/kg, Rat

### ACUTE DERMAL TOXICITY

**Low Toxicity:** LD50 >5000 mg/kg, Rat

**Sensitisation:** Not a skin sensitiser

## 12 ECOLOGICAL INFORMATION



### ECOTOXICOLOGICAL INFORMATION

96 hr fathead minnow static acute LC 50: 8.5 mg/L

48 hr daphnia static acute LC 50: 5.3 mg/L

### CHEMICAL FATE INFORMATION

This product was readily biodegradable in an OECD 301 F Respirometer test.

88% oxygen removal in 28 days.

100% DOC removal.

## 13 DISPOSAL CONSIDERATIONS



### DISPOSAL METHOD

Dispose of this product in accordance with federal, state, and local regulations.

### RCRA/ USPA WASTE INFORMATION

If this product becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). However, the waste should be properly characterised to evaluate whether its composition has been modified through procession prior to disposal.



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## 14 TRANSPORT INFORMATION



REGULATORY INFO	SHIPPING NAME	UN NO	CLASS	PACK GROUP
EEC REGULATION	ALCOHOL. FLAMMABLE Liquid, N.O.S	UN1987	3	II
RID/ ADR/ SANS 10228	ALCOHOL. FLAMMABLE Liquid, N.O.S	UN1987	3	II
IMDG/ UN	ALCOHOL. FLAMMABLE Liquid, N.O.S	UN1987	3	II
ICAO/ IATA	ALCOHOL. FLAMMABLE Liquid, N.O.S	UN1987	3	II

## 15 REGULATORY INFORMATION



**Label for supply:** Irritant, flammable..

**Risk phrases:** R36/37/38 - Avoid direct contact as the product may irritate skin, eyes and mucous membranes.

**Safety phrases:** S7 - Keep container tightly closed.

S16 - Keep away from sources of ignition. No smoking.

S24/ 25 - Avoid contact with skin and eyes. Do not ingest. Avoid breathing vapours over a long period.

Store product in a well ventilated area.

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## 16 OTHER INFORMATION



### NOTICE TO READER

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Data Specification sheet issued by:** EnroChem Trading DMCC

**Contact:** Max Roux

