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Material Safety Data Sheet

Conforms to EU Directive 91/155

MSDS: **ECWA-NS40**

1) IDENTIFICATION OF PRODUCT AND COMPANY

PRODUCT NAME: **ECWA-NS40**

COMPANY IDENTIFICATION: **ECWAMIX Chemical Systems**
3 Granville Ave, Lea Glen
Roodepoort, Gauteng
South Africa

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EMERGENCY INFORMATION: Tel (Office Hours): +27 (0) 11 472 2256

2) COMPOSITION / INGREDIENT INFORMATION

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

3) HAZARDOUS INFORMATION

EMERGENCY OVERVIEW
Irritant.
Irritating to eyes, respiratory system and skin.
For additional information on toxicity, please refer to Section 11.

5) FIRE FIGHTING MEASURES

Flash point: ca. > 19°C
Flammable limits: Not applicable
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.
FIRE FIGHTING 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/hydrotrope 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.



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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.

ENVIROMENTAL 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 with out 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 Center.

7) HANDLING & STORAGE

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: 70 °F minimum to 125 °F maximum

Loading Temperature: 70 °F minimum to 150 °F 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 >125 °F (50 °C), it can undergo exothermic oxidative degradation.

ELECTROSTATIC ACCUMULATION HAZARD:

Unknown, use proper grounding procedure.

MATERIALS/COATINGS SUITABLE

Stainless steel, epoxy resins, polyester

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).



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8) EXPOSURE CONTROLS

ENGINEERING CONTROLS:

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

PERSONAL PROTECTION:

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 AND CHEMICAL PROPERTIES

Physical State.: Liquid
Odor.....: Mild odor
Appearance...: Liquid
Colour.....: Colourless to pale yellow
Boiling Point...: > 82°C
Flash Point.....: > 19°C
Water solubility: Dispersion

10) STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Not Applicable

POLYMERIZATION: Not Applicable

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

Strong Acids, oxidizing agents, copper, copper alloys, aluminum

11) TOXICOLOGICAL INFORMATION

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

Acute Oral Toxicity	:	Moderately toxic: LD50 1.4 mg/kg , Rat
Acute Dermal Toxicity	:	Low toxicity: LD50 >5000 mg/kg , Rat

Sensitisation.....: Not a skin sensitizer



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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 CONSIDERATION

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 characterized to evaluate whether its composition has been modified through procession prior to disposal.

14) TRANSPORT INFORMATION

Not classified as a dangerous good under Transport Regulation

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Not Regulated

INTERNATIONAL (I.M.O.)

Proper shipping Name: Not Regulated

AIR (I.C.A.O.)

Proper shipping Name: Not Regulated

15) REGULATORY INFORMATION

LABEL FOR SUPPLY:

RISK PHRASES:

SAFETY PHRASES:

IRRITANT, FLAMMABLE.

AVOID DIRECT CONTACT AS THE
PRODUCT MAY IRRITATE SKIN, EYES
AND MUCOUS MEMBRANES.

AVOID CONTACT WITH SKIN AND EYES. DO NOT INGEST. AVOID
BREATHING VAPOURS OVER A LONG PERIOD. STORE PRODUCT IN
WELL VENTILATED AREA

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16) OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

ECWAMIX Chemical Systems shall not be held liable for any damage resulting from handling or from contact with the above product.

Contact: Patrick Roux