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Ecwa NS40

MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION OF SUBSTANCE

PRODUCT DETAILS | TRADE NAME: Ecwa NS40
PRODUCT CODE: FecEcwa NS40

Manufacturer/Supplier:

Ecwamix Chemical Systems (Pty) Ltd
3 Granville Avenue Lea Glen Roodepoort, Gauteng South Africa

Information

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Emergency contact:

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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

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get prompt medical attention.

Skin: Immediately flush eyes with large amounts of water for at least 15 minutes; use 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.

Ingestion: Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2



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MATERIAL SAFETY DATA SHEET

4 FIRST AID MEASURES

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 Medical Attention.

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

Notes 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.

5 FIRE FIGHTING MEASURES

Flash point: ca. > 19°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 reconditioner, 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



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MATERIAL SAFETY DATA SHEET

6 ACCIDENTAL RELEASE MEASURES

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 Center.

7 HANDLING AND 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: 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



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7 HANDLING AND STORAGE

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 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).

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.



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9 PHYSICAL & CHEMICAL PROPERTIES

Physical State: Liquid

Odour: Mild odour

Appearance: Liquid

Colour: Colourless to pale yellow

Boiling Point: > 82°C

Flash Point: > 19°C

Water solubility: Dispersion

10 STABILITY & REACTIVITY

STABILITY

Stable: Yes

HAZARDOUS DECOMPOSITION PRODUCTS

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.

HAZARDOUS POLYMERIZATION

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.



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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

Sensitization: Not a skin sensitizer

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 characterized 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 Grp:	Pack Grp:
EEC Regulation	ALCOHOLS/FLAMMABLE Liquid, N.O.S	UN1987	3	II
RID/ADR / SANS 10228	ALCOHOLS/FLAMMABLE Liquid, N.O.S	UN1987	3	II
IMDG/UN	ALCOHOLS/FLAMMABLE Liquid, N.O.S	UN1987	3	II
ICAO/IATA	ALCOHOLS/FLAMMABLE Liquid, N.O.S	UN1987	3	II
HAZCHEM Code:			3YE	
EMERGENCY RESPONSE GROUP:			III	

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.

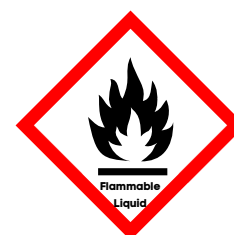
R11- Highly flammable

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 vapors over a long period. Store product in 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: Ecwamix Chemical Systems

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