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Safety Data Sheet Sour and Soft

1. IDENTIFICATION

Synonyms **none**
 CAS# *listed below in Part 3*
 Material Use **laundry pH adjuster & fabric softener**

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Class (Category)	<i>metal corrosion (1)</i>	<i>skin irritation (2)</i>	<i>eye corrosion (1)</i>
Signal Words	WARNING	WARNING	DANGER
Hazard Statements	<i>may be corrosive to metals (H290)</i>	<i>causes skin irritation (H315)</i>	<i>causes serious eye damage (H318)</i>



GHS Precautionary Statements for Labeling

P262 Do not get in eyes, on skin or on clothing.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves and clothing of neoprene.
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

3. COMPOSITION

	CAS NUMBER	%	TLV mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ mg/m ³ INHALATION
Glycolic Acid	79-14-1	21%	not listed	840	not known	2525mg/m ³
Methyl Sulfate Quaternary Amine	68410-69-5	5.5%	not listed	>5000	>2000	not known
Mineral Oil	8012-95-1	1%	5	>5000	>2000	2180mg/m ³
2-Propanol	67-63-0	1.5%	490	>4400	12,900	14,500mg/m ³
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

NOTE: Color & surfactant are present at below 0.1%, at which level they are entirely harmless. The scent, present at 0.15% is also harmless.

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4. FIRST AID

- SKIN:** Wash with plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.
- EYES:** Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly irritation occurs.
- INHALATION:** Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
- INGESTION:** Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

5. FLAMMABILITY & FIRE-FIGHTING

- | | |
|--------------------------|---------------------------------------------------------------------------------------|
| Flash Point | cannot burn |
| Autoignition Temperature | cannot burn |
| Flammable Limits | cannot burn |
| Combustion Products | smoke, part oxidized hydrocarbon fragments, oxides of phosphorous & nitrogen, ammonia |
| Firefighting Precautions | as for materials sustaining fire; firefighters must wear SCBA |
| Static Discharge | cannot accumulate a static charge |

6. ACCIDENTAL RELEASE MEASURES

- Leak Precaution** dike to control spillage and prevent environmental contamination
- Handling Spill** recover free liquid with corrosion-resistant pumps; neutralize residue (carefully) with sodium carbonate (washing soda) or cement powder; sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store and use away from strong alkalis. Never cut, drill, weld or grind on or near this container, whether empty or full. Always replace drum, pail or IBC cap prior to moving the container!

Avoid generating or breathing product vapor or mist. If mist or vapor form in use, install adequate ventilation to clear workplace air. Avoid all contact with skin & wash work clothes frequently. An eye bath & safety shower should be available near the workplace.

Warning: This product is corrosive to skin, eyes & metals. Avoid spillage & handle with care.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Isopropanol:

- | | | | |
|-----------|---------------------------------|------------|--------------------------------|
| ACGIH TLV | 200ppm / 491mg/m ³ ; | ACGIH STEL | 400ppm / 983mg/m ³ |
| OSHA PEL | 400ppm / 980mg/m ³ ; | OSHA STEL | 500ppm / 1225mg/m ³ |

Mineral Oil:

- | | | | |
|-----------|--------------------|------------|------------|
| ACGIH TLV | 5mg/m ³ | ACGIH STEL | not listed |
| OSHA PEL | 1mg/m ³ | OSHA STEL | not listed |

Ventilation mechanical ventilation is probably not required, unless product mist is created in use; in this case wear a closely fitting respirator with an effective dust/mist filter

Hands neoprene gauntlet-style gloves – *other types also protect; confirm suitability with supplier*

Eyes safety glasses with side shields plus face shield – *always protect the eyes*

Clothing wear neoprene apron, boots, hat & long sleeves if there is any danger of splashing

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	pink, opaque, slightly viscous, liquid with an odor of baby powder
Odor Threshold	not known
Vapor Pressure	as for water
Evaporation Rate (<i>Butyl Acetate = 1</i>)	as for water
Vapor Density (air = 1)	0.6 (<i>water</i>), 2.1 (<i>isopropanol</i>) – <i>the remaining ingredients are not volatile</i>
Boiling Point	slightly above 100°C / 212°F
Freezing Point	slightly below 0°C / 32°F
Specific Gravity	1.0440-1.054 (20/20°C)
Water Solubility	complete
Log P _{o/w} (<i>Octanol/H₂O Partition Coefficient</i>)	not known
Viscosity	not known – <i>moderately viscous liquid</i>
pH	1.0 to 2.8 – <i>strongly acidic</i>
Molecular Weight (<i>grams/mole</i>)	76 (<i>glycolic acid</i>), 60 (<i>isopropanol</i>), 18 (<i>water</i>), <i>mineral oil & amine – not known</i>

10. REACTIVITY

Dangerously Reactive With	strong alkalis
Also Reactive With	corrodes steel, iron, zinc (galvanized surfaces) aluminum, copper, brass, etc
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	not known
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	severely irritating to skin if contact is prolonged
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	corrosive to eyes, causing permanent damage, if not removed promptly
Inhalation	vapor or mist irritate the nose, throat and lungs
Ingestion	corrosive to mouth, throat and stomach – <i>not a route of industrial exposure</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure to dilute product may cause dermatitis; ingestion in animal testing causes calcium oxalate kidney stones – <i>not a route of industrial exposure</i>
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans or animals; <i>isopropanol is fetotoxic in animals at doses also causing maternal toxicity & not relevant to industrial exposure</i>
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known
Calculated LD ₅₀ (oral)	>3750mg/kg (rat)
Calculated LD ₅₀ (skin)	>29,000mg/kg (rabbit) – <i>insufficient data for confidence</i>
Calc. LC ₅₀ (inhalation)	11,260mg/m ³ (rat)

12. ECOLOGICAL INFORMATION

Glycolic Acid:

Bioaccumulation	readily metabolised by living creatures (in low concentrations); cannot bioaccumulate
Biodegradation	biodegrades rapidly with oxygen; 86% in 2 weeks, also 90% in 7 days ¹ & 72% in 5 days
Abiotic Degradation	neutralises on contact with soil; expected ½-life in air is 41hr ¹ ; 20% degradation after 90 min. under mercury lamp
Mobility in soil, water	water soluble; may move readily in soil & water, depending on soil composition; may bind to divalent soil ions like Mg ⁺⁺ & Ca ⁺⁺ , becoming immobile

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12. ECOLOGICAL INFORMATION, cont'd

Aquatic Toxicity (*glycolic acid*)

LC ₅₀ (Fish, 96hr)	115mg/litre (Pimephelas promelas), >2850mg/litre (Brachydanio rerio – <i>no mortality</i>)
EC ₅₀ (Crustacea, 48hr)	99mg/litre (Daphnia magna), 158mg/litre (Acartia tonsa)
EC ₅₀ (Algae, 72hr)	31mg/litre (Selenastrum capricornutum), 133mg/litre (Skeletonema costatum)
EC ₅₀ (Bacteria)	>100mg/litre (<i>activated domestic sewage sludge</i>)
EC ₀ (Bacteria)	>1000mg/litre (<i>anaerobic domestic sewage bacteria</i>) – <i>no growth inhibition at this concentration</i>

Methyl Sulfate Quaternary Amine:

Bioaccumulation	not known – <i>water-soluble substances do not usually bioaccumulate</i>
Biodegradation	biodegrades readily in the presence of oxygen – <i>manufacturer's statement</i>
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily through soil & the water column

Aquatic Toxicity

All data below provided by Stepan (manufacturer).

LC ₅₀ (Fish 96 hr)	0.62mg/litre (<i>species not named</i>)
LC ₅₀ (Crustacea, 48hr)	0.3mg/litre (Daphnia magna)
EC ₅₀ (Algae, 96hr)	1.33mg/litre (<i>species not named</i>)
LC ₅₀ (Microorganisms)	not known – <i>if the substance is readily biodegradable (above) it cannot be highly toxic to sewage bacteria</i>

Isopropanol:

Bioaccumulation	low potential for bioaccumulation
Biodegradation	biodegrades readily & rapidly: aerobic – >75% in 28days; anaerobic – >65% in 20days
Abiotic Degradation	reacts with atmospheric hydroxyl (OH) radicals; estimated ½-life in air 3.2 days
Mobility in soil, water	water soluble; moves readily through soil and the water column

Aquatic Toxicity

LC ₅₀ (Fish, 96)	9640, 10,400 & 11,130mg/litre (Pimephelas promelas), 4200mg/litre (Rasbora heteromorpha)
LC ₅₀ (Crustacea, 48)	1100 & 1400mg/l (Crangon crangon), 13,300mg/litre (Daphnia magna)
EC ₅₀ (Algae, 96hr)	1000mg/l (Scenedesmus subspicatus)
EC ₅₀ (Bacteria)	1050 & 5175mg/l (Pseudomonas putida), 41,676mg/litre (“activated sludge, domestic sewage”) 39,540 & 112,000mg/litre (“industrial sewage sludge”), 35,000 & 42,000mg/litre (Photobacterium phosphoreum)

Mineral Oil, CAS# 8012-95-1: *Not known, but most hydrocarbons are readily biodegradable & exhibit low toxicity to aquatic life.*

13. DISPOSAL CONSIDERATIONS

Waste Disposal	do not flush to sewer; neutralization with lime or sodium carbonate followed by biological degradation is probably the best means of disposal
Containers	Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. Pails must be vented and thoroughly dried prior to crushing and recycling. IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years. Warning: never cut, drill, weld or grind on or near this container, even if empty.

14. TRANSPORT INFORMATION

USA 49 CFR & Canada/International TDG

Product Identification Number	UN – 3265
Shipping Name	Corrosive liquid, acidic, organic N.O.S. (glycolic acid)
Classification	Class 8; Packing Group III
Marine Pollution	<i>not a marine pollutant</i>
ERAP Required	No



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15. REGULATIONS

Canada DSL	all components on inventory
U.S.A. TSCA	all components on inventory
Europe EINECS	all components on inventory or exempt as polymers

16. OTHER INFORMATION

Date of Preparation **March 2015**

Date of Revision **-**

Prepared for Tomco-Harwel, by **Peter Bursztyn**

With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available

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