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## Safety Data Sheet Lemon Suds

### 1. IDENTIFICATION

Synonyms none  
 CAS# on request  
 Material Use dishwashing liquid

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

### 2. HAZARD IDENTIFICATION

GHS Class (Category)	skin irritant* (3)	eye irritant (2A)
Signal Words	WARNING no Pictogram**	WARNING
Hazard Statements	may cause skin irritation* (H315)	causes serious eye irritation (H319)



\*NOTE: Skin irritation may occur on prolonged exposure to concentrated material – see Part 11, (i). No skin irritation is likely to occur in normal use.

\*\*NOTE: No Pictogram required at this (low) level of hazard.

#### 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 eye protection, and protective gloves of natural rubber.

### 3. COMPOSITION

	CAS NUMBER	%	TLV mg/m <sup>3</sup>	LD <sub>50</sub> (mg/kg) ORAL	LD <sub>50</sub> (mg/kg) SKIN	LC <sub>50</sub> ppm INHALATION
Anionic Surfactant	on request	10-20%	not listed	1290	not known	not known
Amphoteric Surfactant	on request	1-5%	not listed	>4900	not known	not known
Nonionic Surfactant	on request	1-5%	not listed	12,400	>2000	not known
Ammonium Chloride	12125-02-9	1-5%	10	>1220	not known	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

**NOTES:** Several other components are present at 0.1% or less and are non-hazardous.

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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 if there is any irritation.
- 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	carbon monoxide, nitrogen oxides, sulphur oxides
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 suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

#### 7. HANDLING & STORAGE

Store and use away from strong acids, strong alkalis & oxidizing agents. 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 mist. If mist forms in use, install adequate ventilation to clear workplace air. Avoid prolonged contact with skin & wash work clothes frequently. An eye bath & safety shower should be available near the workplace.

#### 8. EXPOSURE CONTROL & PERSONAL PROTECTION

##### **Ammonium Chloride:\***

ACGIH TLV	10mg/m <sup>3</sup>	ACGIH STEL	20mg/m <sup>3</sup>
OSHA PEL	10mg/m <sup>3</sup>	OSHA STEL	20mg/m <sup>3</sup>
Ventilation	no special mechanical ventilation required		
Hands	natural rubber gloves – <i>other materials also protect; always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields or chemical goggles – <i>always protect eyes!</i>		
Clothing	no special protective clothing required		

\* **NOTE:** Although exposure limits exist for ammonium chloride, they are not relevant in this product because NH<sub>3</sub>Cl only exists in solution which cannot form a respirable dust.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, yellow, viscous (oily) liquid with a lemon odor
Odor Threshold	not known
Vapor Pressure	not known – <i>water &amp; the scent (trivial amounts) are the only volatile components</i>
Evaporation Rate ( <i>Butyl Acetate = 1</i> )	as for water
Vapor Density (air = 1)	0.6 ( <i>water</i> )
Boiling Point	slightly above 100°C / 212°F
Freezing Point	slightly below 0°C / 32°F
Specific Gravity	1.00-1.01 (20/20°C)
Water Solubility	complete
Viscosity	not known – <i>thick liquid</i>
pH	6.2 to 6.8 – <i>very slightly acidic</i>

## 10. REACTIVITY

Dangerously Reactive With	none known
Also Reactive With	oxidizing agents, strong alkalis, strong acids
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	strong acids, strong alkalis
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

## 11. TOXICITY INFORMATION

### ***i. ACUTE EXPOSURE***

Skin Contact	irritating if contact to concentrate is prolonged – <i>through removal of natural protective skin oils</i> <i>No irritation is likely to occur in normal use.</i>
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	may be severely irritating – <i>as expected for any soap</i>
Inhalation	product mist may irritate respiratory system
Ingestion	irritating to mouth, throat & stomach; not a route of industrial exposure
Calculated LD <sub>50</sub> (oral)	8170mg/kg (rat)
LD <sub>50</sub> (skin)	<i>insufficient data to calculate; not expected to be harmful</i>
LC <sub>50</sub> (inhalation)	<i>insufficient data to calculate; not expected to be harmful</i>

### ***ii. CHRONIC EXPOSURE***

General	prolonged or repeated exposure may cause dermatitis <i>through removal of natural protective skin oils</i>
Sensitising	no component is a sensitizer
Carcinogen/Tumorigen	no component is known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no component is known to affect reproduction of humans; <i>one component is teratogenic (&amp; maternally toxic) at 500mg/kg/day – a huge oral dose not relevant to industrial exposure</i>
Mutagen	contains no known mutagens or teratogens humans or animals
Synergistic With	not known

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## 12. ECOLOGICAL INFORMATION

### **Anionic Surfactant:**

Bioaccumulation	water soluble; cannot bioaccumulate
Biodegradation	biodegrades readily under aerobic conditions; 83% biodegradation in 28 days
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily in soil and water

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96hr)	not known
EC <sub>50</sub> (Crustacea, 48hr)	25mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae, 72hr)	30mg/liter (Selenastrum capricornutum)

### **Amphoteric Surfactant:**

Bioaccumulation	water soluble; cannot bioaccumulate
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; 84% in 20 days, 97% & 100% in 28 days
Abiotic Degradation	estimated ½-life in air is unknown
Mobility in soil, water	water soluble; moves readily in soil and water

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96hr)	1.8, 2, 6.7 & 10mg/liter (Brachydanio rerio)
EC <sub>50</sub> (Crustacea, 48hr)	1.9, 6.5 & 21.7mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae)	1.8, 2.4 & 30mg/liter (Scenedesmus subspicatus)
EC <sub>0</sub> (Bacteria)	>10,000mg/liter (Pseudomonas putida)

### **Nonionic Surfactant:**

Bioaccumulation	readily metabolised and will not bioaccumulate
Biodegradation	biodegrades readily and rapidly in the presence of oxygen; 71% & 84% in 28 days
Abiotic Degradation	reacts with atmospheric hydroxyl (OH) radicals; estimated ½-life in air 2.6 hours
Mobility in soil, water	sufficiently water soluble; to move readily through soil & the water column

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish 96 hr)	2.6mg/liter ( <i>estimated value – no species given</i> )
LC <sub>50</sub> (Crustacea, 48hr)	2.25mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae, 96hr)	not known

### **Ammonium Chloride:**

Bioaccumulation	cannot bioaccumulate
Biodegradation	inorganic compound – cannot biodegrade; <i>however, ammonium compounds are plant nutrients</i>
Abiotic Degradation	plant nutrient; avidly taken up by growing plants & algae
Mobility in soil, water	water soluble; moves readily through soil and the water column
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish, 96)	209mg/liter (Cyprinus carpio), 127mg/liter (Salmo gairdneri), 163mg/liter (Pimephelas promelas) & others
LC <sub>50</sub> (Crustacea, 48)	101 & 139mg/liter (Daphnia magna), 152mg/liter (Homarus americanus)
EC <sub>50</sub> (Algae, 96hr)	90.4mg/l (Navicula sp.) 1260mg/liter (Chlorella vulgaris)
LC <sub>50</sub> (Microorganisms)	1618mg/l (“activated sludge, domestic sewage”)

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal	<b>do not flush undiluted to sewer;</b> local regulations may allow disposal of this non-hazardous material in landfill; alternatively, biological destruction is an effective option for the biodegradable substances in this product
Containers	<b>Drums</b> should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. <b>Pails</b> must be vented and thoroughly dried prior to crushing and recycling. <b>IBCs</b> (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. <b>Warning: never cut, drill, weld or grind on or near this container, even if empty.</b>

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**14. TRANSPORT INFORMATION****USA 49 CFR & Canada/International TDG**

Product Identification Number

UN – not regulated for transport

Shipping Name

not regulated for transport

Classification

not regulated for transport

**Marine Pollution****not a marine pollutant****ERAP Required****No****15. REGULATIONS**

Canada DSL

all components on inventory

U.S.A. TSCA

all components on inventory

Europe EINECS

all components on inventory or exempt from registration as polymers

**U.S.A. Regulations:****SARA Section 311/312 Hazards:****Acute Health.****SARA Title III Section 313:****None****EPA Hazardous Air Pollutants****None****California Proposition 65:****Contains no substances known to the State of California to cause reproductive toxicity:****16. OTHER INFORMATION****Date of Preparation****January 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), &amp; others sources (below if used), as required/available

**last page of SDS****PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.****EMERGENCY INFORMATION:      INFOTRAC 1-800-535-5053**