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## Safety Data Sheet Pot and Pan

### 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* (2)	eye irritant (2A)	acute aquatic (2)
Signal Words	WARNING	WARNING	no Signal Word* no Pictogram**
Hazard Statements	causes skin irritation* (H315)	causes serious eye irritation (H319)	toxic to aquatic life (H401)



\*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 Signal Word or 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.  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

### 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
Alkylbenzenesulfonic Acid	85536-14-7	5-10%	not listed	above 500	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
Potassium Hydroxide	1310-58-3	1-5%	2mg/m <sup>3</sup>	>205	>1260	not known
Tetrasodium Ethylenediaminetetraacetic Acid	64-02-8	<1%	not listed	>1780	>5000	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

##### **Potassium Hydroxide:\***

ACGIH TLV	2mg/m <sup>3</sup>	ACGIH STEL	not listed
OSHA PEL	not listed	OSHA STEL	not listed
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 potassium hydroxide, they are not relevant in this product because KOH only exists in solution and cannot form a respirable dust. Also, this product is fully neutralised to a slightly acidic pH.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, straw-colored, very viscous liquid with a floral 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	1.006-1.018 (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 not removed promptly; <i>surfactants remove protective skin oils</i>
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	surfactant severely irritating – <i>typical for any soap</i> ; may damage eyes if not rinsed off promptly
Inhalation	mist inhalation may irritate the respiratory system – <i>highly unlikely to occur in normal use</i>
Ingestion	likely to irritate mouth, throat – <i>not a route of industrial exposure &amp; unlikely in normal use</i>
Calculated LD <sub>50</sub> (oral)	2915mg/kg (rat)
Calculated LD <sub>50</sub> (skin)	<i>insufficient data to calculate – unlikely to be toxic via skin absorption</i>
LC <sub>50</sub> (inhalation)	<i>insufficient data to calculate – unlikely to be toxic by inhalation</i>

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

General	prolonged or repeated exposure may cause dermatitis <i>through removal of protective skin oils</i>
Sensitizing	not a sensitizer for most people
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals ( <b><i>see boxed NOTE, Part 15</i></b> )
Reproductive Effect	no component is known to affect reproduction of humans; <i>one component is teratogenic (&amp; maternally toxic in rodents) at 500mg/kg/day – a huge oral dose not relevant to industrial exposure</i>
Mutagen	not known to be a mutagen or teratogen in 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

### **Potassium Hydroxide:**

Bioaccumulation	not a bioaccumulator
Biodegradation	cannot biodegrade
Abiotic Degradation	dilutes readily in water & neutralises with dissolved CO <sub>2</sub> & atmospheric CO <sub>2</sub> to potassium carbonate;
Mobility in soil, water	product is water soluble & moves readily in soil and water

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96hr)	178mg/liter – <i>for 45% product (Gambusia affinis) – the pH of the test medium is not reported . . .</i>
EC <sub>50</sub> (Crustacea, 48hr)	<i>. . . no other ecotoxicity data available . . .</i>

### **Tetrasodium Ethylenediaminetetraacetic Acid:**

Bioaccumulation	not a bioaccumulator
Biodegradation	various values reported from 1% in 72 days to 63% in 5 days
Abiotic Degradation	not known
Mobility in soil, water	highly water soluble; expected to bind to soil particles; may move slowly or not at all in soil & water

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96hr)	41, 159, 486, 532, 1030 & 2070mg/liter (Lepomis macrochirus), 60mg/liter (Pimephelas promelas) & others
EC <sub>50</sub> (Crustacea, 24hr)	610, 625 & 1030mg/liter (Daphnia magna), 4834mg/liter (Crangon crangon, 96hr) & others
EC <sub>50</sub> (Algae)	>100mg/liter (Scenedesmus subspicatus)
EC <sub>10</sub> (Bacteria)	55mg/liter (Pseudomonas putida), >1000mg/liter ( <i>other bacteria</i> )
EC <sub>5</sub> (Microorganisms)	663mg/liter (Chilomonas paramecium)

### **Sodium Alkylbenzene Sulfonic Acid:**

Bioaccumulation	does not bioaccumulate
Biodegradation	readily biodegradable; 69% to 90% in 28 days ( <i>various linear benzene sulfonates tested</i> )
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily in soil and the water column

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96 hr)	2.9-13mg/liter ( <i>various species</i> )
EC <sub>50</sub> (Crustacea, 48 hr)	1.62mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae, 72 hr)	29mg/liter (Selenastrum capricornutum)

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**13. DISPOSAL CONSIDERATIONS**

- Waste Disposal **do not flush undiluted to sewer**; 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 **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 – not regulated for transport
Shipping Name	not regulated for transport
Classification	not regulated for transport
<b>Marine Pollution</b>	<i>not a marine pollutant</i>
<b>ERAP Required</b>	<i>No</i>

**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:**

<b>SARA Section 311/312 Hazards:</b>	<i>Acute Health.</i>
<b>SARA Title III Section 313:</b>	<i>None</i>
<b>EPA Hazardous Air Pollutants</b>	<i>None</i>
<b>California Proposition 65:</b>	<i>Contains no substances known to the State of California to cause reproductive toxicity</i>

**NOTE:** EDTA (Tetrasodium Ethylenediaminetetraacetic Acid) is an animal carcinogen, but only on prolonged ingestion. Ingestion is not a route of industrial exposure, and Sink Pink is aversive in nature (irritating to mouth and throat), Sink Pink cannot be classified as a carcinogen.

**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), & others sources (below if used), as required/available

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