

# Material Safety Data Sheet

PAN DANDY



## 1. Product and company identification

Trade name of product : PAN DANDY  
Product use : Manual Warewashing Detergent

Product dilution information : 0.4%  
10.25oz/20gal

Supplier's information : Ecolab Co.  
5105 Tomken Road  
Mississauga ON L4W 2X5  
1-800-352-5326

Code : 912053

Date of issue : 01-June-2010

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## 2. Hazards identification

**Product AS SOLD**  
**Physical state** : Liquid.  
**Emergency overview** : CAUTION !  
  
MAY CAUSE EYE AND SKIN IRRITATION.  
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Routes of entry** : Skin contact, Eye contact, Inhalation, Ingestion

### Potential acute health effects

**Product AS SOLD**  
**Eyes** : Moderately irritating to eyes.  
**Skin** : Moderately irritating to the skin.  
**Inhalation** : Slightly irritating to the respiratory system.  
**Ingestion** : No known significant effects or critical hazards.

See toxicological information (section 11)

### **Product AT USE DILUTION**

Liquid.  
CAUTION !  
  
No specific hazard.  
No specific hazard.

### **Product AT USE DILUTION**

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

## 3. Composition/information on ingredients

### **Product AS SOLD**

<b>Name</b>	<b>CAS number</b>	<b>% by weight</b>
sulfuric acid, mono-c10-16-alkyl esters, sodium salts	68585-47-7	1 - 5
COCAMIDE DEA	68603-42-9	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	1 - 5
ALCOHOL	64-17-5	0.1 - 1

### 3. Composition/information on ingredients

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### 4. First-aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.

### 5. Fire-fighting measures

#### Product AS SOLD

<b>Auto-ignition temperature</b>	: Not available.
<b>Flammable limits</b>	: Not available.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
<b>Special remarks on fire hazards</b>	: Not available.
<b>Special remarks on explosion hazards</b>	: Not available.
<b>Fire-fighting media and instructions</b>	: Use an extinguishing agent suitable for the surrounding fire.  Dyke area of fire to prevent runoff. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## 7. Handling and storage

**Product AS SOLD**

**Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Store in a closed container.  
Store between the following temperatures: 5 and 40°C

**Product AT USE DILUTION**

Wash thoroughly after handling.

Keep out of reach of children.

## 8. Exposure controls/personal protection

**Product AS SOLD**

**Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protection

**Eyes** : Safety eyewear should be used when there is a likelihood of exposure.

**Hands** : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.

**Skin** : No protective equipment is needed under normal use conditions.

**Respiratory** : No special protection is required.

**Product AT USE DILUTION**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No special protection is required.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
ethanol	US ACGIH 1/2009	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 10/2009	-	-	-	1000	-	-	-	-	-	
	ON 8/2008	1000	1900	-	-	-	-	-	-	-	
	QC 6/2008	1000	1880	-	-	-	-	-	-	-	

## 9. Physical and chemical properties

**Product AS SOLD**

**Physical state** : Liquid.

**Flash point** : > 100°C

**Colour** : pink [Dark]

**Odour** : citrus

**pH** : 6 to 8.5 [Conc. (% w/w): 100%]

**Boiling/condensation point** : Not available.

**Melting/freezing point** : Not available.

**Relative density** : 1 to 1.03

**Vapour pressure** : Not available.

**Vapour density** : Not available.

**Odour threshold** : Not available.

**Evaporation rate** : Not available.

**Viscosity** : Not available.

**Dispersibility properties** : Not available.

**Solubility** : Not available.

**LogK<sub>ow</sub>** : Not available.

**Product AT USE DILUTION**

Liquid.

> 100°C

pink [Light]

citrus [Slight]

7.57

## 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
- Conditions of instability** : Not available.
- Reactivity** : Not available.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerisation** : Under normal conditions of storage and use, hazardous polymerisation will not occur.

## 11. Toxicological information

### Potential acute health effects

- Product AS SOLD**
- Eyes** : Moderately irritating to eyes.
- Skin** : Moderately irritating to the skin.
- Inhalation** : Slightly irritating to the respiratory system.
- Ingestion** : No known significant effects or critical hazards.

### Product AT USE DILUTION

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

### Product AS SOLD

### Potential chronic health effects

- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Teratogenic effects** : No known significant effects or critical hazards.
- Reproductive effects** : No known significant effects or critical hazards.
- Sensitization to Product** : No known significant effects or critical hazards.
- Synergistic products (toxicologically)** : Not available.

### Toxicity data

Product/ingredient name	Test	Route	Result	Species
ethanol	LD50	Oral	7 g/kg	Rat
	LD50	Oral	15010 mg/kg	Rat
	LC50	Inhalation	124700 mg/m <sup>3</sup>	Rat
	LC50	Inhalation	5900 mg/m <sup>3</sup>	Rat
	LC50	Inhalation	20000 ppm	Rat

### Other adverse effects

- Target organs** : Contains material which may cause damage to the following organs: stomach.

## 12. Ecological information

- Ecotoxicity** : Not reported

## 13. Disposal considerations

- Product AS SOLD**
- Waste disposal** : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**Product AS SOLD**

IMO/IMDG Classification : Not regulated.

See shipping documents for specific transportation information.

**Product AT USE DILUTION**

Not intended for transport.

## 15. Regulatory information

**Product AS SOLD**

WHMIS : Class D-2B: Material causing other toxic effects (Toxic).

**Product AT USE DILUTION**

Not hazardous by WHMIS criteria.

Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information

**Product AS SOLD**

Hazardous Material Information System (U.S.A.) :

Health	*	2
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.) :



**Product AT USE DILUTION**

Health		0
Flammability		0
Physical hazards		0



Date of issue : 01-June-2010  
 Date of previous issue : No previous validation  
 Responsible name : Regulatory Affairs  
 1-800-352-5326

Indicates information that has changed from previously issued version.

Notice to reader

## 16. Other information

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**