

# Material Safety Data Sheet



SOLITAIRE

## Section 1. Chemical product and company identification

Trade name : SOLITAIRE  
Product use : Manual Warewashing Detergent  
Supplier : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326  
Code : 975888  
Date of issue : 16-December-2005

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

## Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium dodecylbenzene sulfonate	25155-30-0	31
dodecanamide, n-(2-hydroxyethyl)- poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	142-78-9 68585-34-2	5 - 20 5 - 20
amides, coco, n-[3-(dimethylamino)propyl], n-oxides	68155-09-9	5 - 20
acetic acid, sodium salt	127-09-3	1 - 5
ethanol	64-17-5	1 - 5

## Section 3. Hazards identification

Physical state : Solid.  
Emergency overview : CAUTION!

HARMFUL IF SWALLOWED.  
MAY CAUSE EYE AND SKIN IRRITATION.  
Avoid contact with skin and clothing. Wash thoroughly after handling.

### Potential acute health effects

Eyes : Moderately irritating to eyes.  
Skin : Moderately irritating to the skin.  
Inhalation : Slightly irritating to the respiratory system.  
Ingestion : Harmful if swallowed.

See toxicological information (section 11)

## Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin contact : Wash with soap and water. Get medical attention if irritation occurs. Wash clothing before reuse.

Inhalation : If inhaled, remove to fresh air.

Ingestion : Rinse mouth; then drink one or two large glasses of water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

## Section 5. Fire fighting measures

- Flash point** : > 100°C
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- Dike area of fire to prevent runoff.  
No specific hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

## Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  
SAFETY REMINDER:  
\* Never pour product into unlabeled containers  
\* Use only for recommended uses. Read label.  
\* Never take product home. Use only in workplace.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.  
Do not store above 50°C

## Section 8. Exposure controls, personal protection

- Engineering controls** : Good general ventilation should be sufficient to control airborne levels.
- Personal protection**
- Eyes** : Eye protection recommended.
- Hands** : For prolonged or repeated handling, use Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : No protective equipment is needed under normal use conditions.

**Name**  
ethanol

### Exposure limits

#### **ACGIH TLV (United States, 1/2004).**

TWA: 1880 mg/m<sup>3</sup> 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

#### **OSHA PEL (United States, 8/1997).**

TWA: 1900 mg/m<sup>3</sup> 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

## Section 9. Physical and chemical properties

- Physical state** : Solid.
- Color** : pink (Light.)
- Odor** : citrus
- pH** : 8.3 (1%)
- Solubility** : Soluble in cold water, hot water.

## Section 10. Stability and reactivity

Stability : The product is stable.  
 Reactivity : Reactive with oxidizing agents.  
 Hazardous polymerization : Will not occur.

## Section 11. Toxicological information

### Potential acute health effects

Eyes : Moderately irritating to eyes.  
 Skin : Moderately irritating to the skin.  
 Inhalation : Slightly irritating to the respiratory system.  
 Ingestion : Harmful if swallowed.  
 Chronic effects on humans : Contains material which causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

## Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> ...), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...). Some metallic oxides.

## Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-

### APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

## Section 15. Regulatory information

HCS Classification : Irritating material  
 Target organ effects  
 U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.  
 SARA 302/304 emergency planning and notification: None.  
 TSCA 8(b) inventory : All materials are listed or exempt.  
 California Prop. 65 : No products were found.

## Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health *	1
	Fire hazard	0
	Reactivity	0
	Personal protection	B

Date of issue : 16-December-2005.  
 Responsible name : Regulatory Affairs

Date of previous issue : No previous validation.

Notice to reader

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.**