

# Material Safety Data Sheet



APEX MANUAL DETERGENT

## Section 1. Chemical product and company identification

**Trade name** : APEX MANUAL DETERGENT  
**Product use** : Manual Warewashing Detergent  
**Supplier** : Ecolab Co.  
5105 Tomken Road  
Mississauga ON L4W 2X5  
1-800-352-5326  
**Code** : 999174-02  
**Date of issue** : 25-May-2006

**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	30 - 60
acetic acid, sodium salt	127-09-3	7 - 13
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	7 - 13
sulfuric acid, magnesium salt, heptahydrate	10034-99-8	7 - 13
amides, coco, n-(hydroxyethyl)	68140-00-1	3 - 7
d-glucopyranose, oligomeric, c10-16-alkyl glycosides	110615-47-9	3 - 7
sodium sulfate	7757-82-6	1 - 5

## Section 3. Hazards identification

**Physical state** : Solid. (Extruded solid.)  
**Emergency overview** : CAUTION!  
HARMFUL IF SWALLOWED.  
MAY CAUSE EYE IRRITATION.  
Repeated or prolonged contact with irritants may cause dermatitis.  
Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling.  
**Routes of entry** : Skin contact, Eye contact, Ingestion  
**Potential acute health effects**  
**Eyes** : Slightly irritating to the eyes.  
**Skin** : Slightly irritating to the skin.  
**Inhalation** : No known significant effects or critical hazards.  
**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 occurs.  
**Skin Contact** : Flush contaminated skin with plenty of water. Wash clothing before reuse.  
**Inhalation** : If inhaled, remove to fresh air.  
**Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire-fighting measures

Auto-ignition temperature	: Not available.
Flash point	: > 100°C Product does not support combustion.
Flammable limits	
Upper:	Not available.
Lower:	Not available.
Products of combustion	: Not available.
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire.  Dyke liquid for later disposal. 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 face-piece operated in positive pressure mode.
Risk of explosion of the product in the presence of mechanical impact:	Not available.
Risk of explosion of the product in the presence of static discharge:	Not available.

## 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. Do not allow to enter drains or watercourses.
Environmental precautions	: Avoid dispersal of spilt 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 spilt material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

## Section 7. Handling and storage

Handling	: Do not ingest. Wash thoroughly after handling.
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	: No protective equipment is needed under normal use conditions.
Hands	: No protective equipment is needed under normal use conditions.
Skin	: No protective equipment is needed under normal use conditions.
Respiratory	: A respirator is not needed under normal and intended conditions of product use.
<b>Consult local authorities for acceptable exposure limits.</b>	

## Section 9. Physical and chemical properties

Physical state	: Solid. (Extruded solid.)
Colour	: Purple. (Light.)
Odour	: citrus
pH	: 8.5 (1%)
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Specific gravity	: 1.1 (Water = 1)
Vapour pressure	: Not applicable.
Vapour density	: Not available.
Odour threshold	: Not available.

Evaporation rate : Not applicable.  
 LogK<sub>ow</sub> : Not available.  
 Solubility : Soluble in cold water, hot water.

## Section 10. Stability and reactivity

Stability : The product is stable.  
 Conditions of instability : Not available.  
 Incompatibility with various substances : Not available.  
 Hazardous Decomposition Products : Not available.

## Section 11. Toxicological information

### Potential acute health effects

Eyes : Slightly irritating to the eyes.  
 Skin : Slightly irritating to the skin.  
 Inhalation : No known significant effects or critical hazards.  
 Ingestion : Harmful if swallowed.  
 Irritancy of Product : Hazardous by WHMIS criteria.

### 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

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
sodium dodecylbenzene sulfonate	LD50	438 mg/kg	Oral	Rat
acetic acid, sodium salt	LD50	1330 mg/kg	Oral	Mouse
	LD50	3530 mg/kg	Oral	Rat
	LD50	6891 mg/kg	Oral	Mouse

Target organs : Contains material which causes damage to the following organs: skin, eye, lens or cornea.

## Section 12. Ecological information

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
sodium dodecylbenzene sulfonate	Daphnia magna (EC50)	48 hour(s)	5.88 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	1.18 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	1.68 mg/l
sodium sulfate	Lepomis macrochirus (LC50)	96 hour(s)	6.5 mg/l
	Pimephales promelas (LC50)	96 hour(s)	7960 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	12500 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	12750 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	13000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	13500 mg/l

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

## Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt 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
TDG 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

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

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*.

## Section 16. Other information

Date of issue : 25-May-2006.  
 Responsible name : Regulatory Affairs  
 Date of previous issue : 23-January-2006.

### 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.