

Material Safety Data Sheet



KEYSTONE APEX MANUAL POT AND PAN DETERGENT

Section 1. Chemical product and company identification

Trade name : KEYSTONE APEX MANUAL POT AND PAN DETERGENT
Product use : Cleaning product
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 999174-04
Date of issue : 23-July-2007

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 % 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.
Do not ingest. Avoid contact with eyes. 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 the following temperature: 50°C

Section 8. Exposure controls, personal protection

Engineering measures	: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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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.

Consult local authorities for acceptable exposure limits.

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 _{ow}	: Not available.
Solubility	: Soluble in the following materials: cold water, hot water.

Section 10. Stability and reactivity

Stability	: The product is stable.
Conditions of instability	: Not available.
Reactivity	: 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>Route</u>	<u>Result</u>	<u>Species</u>
sodium dodecylbenzene sulfonate	LD50	Oral	438 mg/kg	Rat
	LD50	Oral	1330 mg/kg	Mouse
acetic acid, sodium salt	LD50	Dermal	>10 g/kg	Rabbit
	LD50	Oral	3530 mg/kg	Rat
	LD50	Oral	6891 mg/kg	Mouse

Target organs : Not available.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
sodium dodecylbenzene sulfonate	Daphnia	48 hours	Acute EC50 5.88 mg/L
	Fish	96 hours	Acute LC50 6.5 mg/L
	Fish	96 hours	Acute LC50 1.68 mg/L
	Fish	96 hours	Acute LC50 1.18 mg/L

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 : 23-July-2007.
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.