

Material Safety Data Sheet



SURE-PAK

Section 1. Chemical product and company identification

Trade name : SURE-PAK
Product use : Surface cleaner
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 903745
Date of issue : 11-December-2008

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 carbonate	497-19-8	10 - 30
citric acid	77-92-9	10 - 30
alcohols, c12-16, ethoxylated	68551-12-2	5- 10
sodium dodecylbenzene sulfonate	25155-30-0	3 - 7
Fragrance	Mixture	1 - 5
acetic acid, sodium salt	127-09-3	1 - 5
calcium silicate	1344-95-2	0.5 - 1.5

Section 3. Hazards identification

Physical state : Solid. [Powder.]

Emergency overview : WARNING !

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Ingestion

Potential acute health effects

Eyes : Severely irritating to eyes.

Skin : Irritating to skin.

Inhalation : Irritating to respiratory system.

Ingestion : No known significant effects or critical hazards.

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 immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire-fighting measures

- Auto-ignition temperature** : Not available.
- Flash point** : > 100°C
- Flammable limits** : Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
halogenated compounds
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
Dyke area of fire to prevent runoff.
- No specific fire or explosion 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** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Use a tool to scoop up solid or absorbed material and place into appropriate labelled waste container. Avoid creating dusty conditions and prevent wind dispersal.

Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store below the following temperature: 0°C

Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection :

- Eyes** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hands** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions. For prolonged or repeated handling, use the following type of gloves:
Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Name **Exposure limits**

calcium silicate

CA British Columbia Provincial (Canada, 6/2008).TWA: 3 mg/m³ 8 hour(s). Form: Respirable dustTWA: 10 mg/m³ 8 hour(s). Form: Total dust**CA Quebec Provincial (Canada, 6/2008).**TWA: 10 mg/m³ 8 hour(s). Form: Total dust.**CA Alberta Provincial (Canada, 6/2008).**8 hrs OEL: 10 mg/m³ 8 hour(s).**CA Ontario Provincial (Canada, 6/2008).**TWA: 10 mg/m³ 8 hour(s). Form: total dust**ACGIH TLV (United States, 1/2008).**TWA: 10 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Solid. [Powder.]
Colour	: pink [Light]
Odour	: citrus
pH	: 7.5 to 9.5 [Conc. (% w/w): 1%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
LogK _{ow}	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Slightly reactive or incompatible with the following materials: acids.
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.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Severely irritating to eyes.
Skin	: Irritating to skin.
Inhalation	: Irritating to respiratory system.
Ingestion	: No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.

<u>Ingredient name</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Not applicable.				

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 carbonate	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	6600 mg/kg	Mouse
	LD50	Oral	4090 mg/kg	Rat
	LC50	Inhalation	2300 mg/m ³	Rat
citric acid	LD50	Oral	5040 mg/kg	Mouse
	LD50	Oral	3 gm/kg	Rat
	LD50	Oral	7280 mg/kg	Mouse
	LDLo	Oral	7 gm/kg	Rabbit
sodium dodecylbenzene sulfonate	LD50	Oral	438 mg/kg	Rat
	LD50	Oral	1330 mg/kg	Mouse
acetic acid, sodium salt	LD50	Oral	6891 mg/kg	Mouse
	LD50	Oral	3530 mg/kg	Rat

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>	
sodium carbonate	Daphnia	48 hours	Acute EC50 347 mg/L	
	Daphnia - Water flea - Neonate - 24 hours	48 hours	Acute EC50 199.82 to 298.9 mg/L Fresh water	
	Fish	96 hours	Acute LC50 740 mg/L	
	Fish	96 hours	Acute LC50 <850 mg/l	
	Fish	96 hours	Acute LC50 320 mg/l	
	Fish	96 hours	Acute LC50 300 mg/l	
	Fish - Bluegill	96 hours	Acute LC50 320000 ug/L Fresh water	
	Fish - Bluegill - 3.88 cm - 0.96 g	96 hours	Acute LC50 300000 ug/L Fresh water	
	Daphnia - Water flea	48 hours	Acute LC50 265000 ug/L Fresh water	
	Fish - Western mosquitofish - Adult	96 hours	Acute LC50 740000 ug/L Fresh water	
	Daphnia - Water flea - 24 hours	48 hours	Acute LC50 1640000 to 2030000 ug/L Fresh water	
	Daphnia - Water flea - 24 hours	48 hours	Acute LC50 1020000 to 1170000 ug/L Fresh water	
	Daphnia - Water flea	48 hours	Acute LC50 565000 ug/L Fresh water	
	Fish - Fathead minnow - 1 to 7 days	96 hours	Acute LC50 <850000 ug/L Fresh water	
	sodium dodecylbenzene sulfonate	Daphnia - Water flea - Neonate - <24 hours	48 hours	Acute EC50 7.81 to 14.51 mg/L Fresh water
		Daphnia - Water flea	48 hours	Acute EC50 5.88 ppm Fresh water
Daphnia - Water flea - Neonate - <24 hours		48 hours	Acute LC50 9.546 to 9.6 mg/L Fresh water	
	Fish - Rainbow trout, donaldson trout	96 hours	Acute LC50 1.68 ppm Fresh water	

Fish - Bluegill	96 hours	Acute LC50 1.18 ppm Fresh water
Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 6900 ug/L Fresh water
Fish - Bluegill - Young of the year	96 hours	Acute LC50 6500 ug/L Fresh water
Fish - Rainbow trout, donaldson trout - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	Acute LC50 3200 to 5600 ug/L Fresh water
Daphnia - Water flea	48 hours	Acute LC50 19870 ug/L Fresh water
Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 7160 ug/L Fresh water
Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 7079 to 7638 ug/L Fresh water
Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 6969 to 7614 ug/L Fresh water
Fish - Catfish - 12 to 16 cm	96 hours	Acute LC50 6926 to 7346 ug/L Fresh water

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

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.

UN Classification Not regulated.

See shipping documents for specific transportation information.

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 : 11-December-2008.

Responsible name : Regulatory Affairs
1-800-352-5326

Date of previous issue : 23-October-2008.

Notice to reader

Section 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.**