Material Safety Data Sheet



ECO-SAN

Section 1. Chemical product and company identification

Trade name	: ECO-SAN
Product use	: Sanitizer.
Supplier	: Ecolab Inc. Institutional Division 370 N. Wabasha Street
	St. Paul, MN 55102
	1-800-352-5326
Code	: 900043-02
Date of issue	25-April-2008
EPA Registration No.	: 1677-52

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

Name	<u>CAS number</u>	<u>% by weight</u>
sodium hypochlorite	7681-52-9	8.4

Section 3. Hazards identification

Physical state	: Liquid. [Liquid.]
Emergency	: DANGER !
overview	CAUSES EYE BURNS.
	CAUSES SEVERE SKIN IRRITATION. Untreated contact may cause severe irritation or
	chemical burns.
	May cause burns to mouth, throat and stomach.
	CAUSES RESPIRATORY TRACT IRRITATION.
	Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.
Potential acute hea	alth effects
Eyes	: Corrosive to eyes.
Skin	 Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation	: Irritating to respiratory system.
Ingestion	: May cause burns to mouth, throat and stomach.
Soo toxicological i	nformation (agation 11)

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 for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. 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	: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

Flash point Hazardous thermal decomposition products	 > 100°C Decomposition products may include the following materials: halogenated compounds metal oxide/oxides 			
Fire-fighting media and instructions	Use an extinguishing agent suitable for the surrounding fire.			
	Dike area of fire to prevent runoff.			
Special protective equipment for fire-fighters	 In a fire or if heated, a pressure increase will occur and the container may burst. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 			

Section 6. Accidental release measures

Personal precautions	: Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
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	: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling	 Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, spray or mists. 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 above the following temperature: 40°C

Section 8. Exposure controls, personal protection

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor Engineering measures 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. Personal protection : : Use chemical splash goggles. For continued or severe exposure wear a face shield over the Eyes goggles. Hands : Use chemical-resistant, impervious gloves. Skin : Wear suitable protective clothing. Respiratory : Avoid breathing vapors, spray or mists. <u>Name</u> Exposure limits chlorine ACGIH TLV (United States, 1/2004). STEL: 2.9 mg/m³ 15 minute(s). Form: All forms STEL: 1 ppm 15 minute(s). Form: All forms TWA: 1.5 mg/m³ 8 hour(s). Form: All forms TWA: 0.5 ppm 8 hour(s). Form: All forms OSHA PEL (United States, 8/1997). CEIL: 3 mg/m³ Form: All forms CEIL: 1 ppm Form: All forms

Section 9. Physical and chemical properties

Physical state Color		Liquid. [Liquid.] Yellow. [Light]
Odor	:	chlorine
рН	:	12.5 [Conc. (% w/w): 100%]
Specific gravity	:	1.154

Section 10. Stability and reactivity

Stability	The product is stable. Under normal conditions of storage and us polymerization will not occur.	e, hazardous
Reactivity	Extremely reactive or incompatible with acids. Slightly reactive to reactive with metals. Aixing this product with acid or ammonia releases chlorine gas.	
Hazardous decomposition products	Inder normal conditions of storage and use, hazardous decomponent hould not be produced.	sition products

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation	: Irritating to respiratory system.
Ingestion	: May cause burns to mouth, throat and stomach.

Potential chronic health effects

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

Section 12. Ecological information

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.
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Waste : Unused product is D002 (Corrosive)

classification

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Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN1791	Hypochlorite solutions	8	111	Not available.

APPLIES ONLY DURING ROAD TRANSPORT

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

Section 15. Regulatory information

HCS Classification	: Corrosive material
	Target organ effects
U.S. Federal regulations	: United States inventory (TSCA 8b): All components are listed or exempted.
Ū	SARA 302/304/311/312 extremely hazardous substances: No products were found.
	SARA 302/304 emergency planning and notification: No products were found.
California Prop. 65	: No products were found.
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Section 16. Other information

Date of previous issue

Hazardous Material Information System (U.S.A.)	:	Health	*	3
		Flammability		0
		Physical hazards		0
Date of issue Responsible name	:	25-April-2008. Regulatory Affairs		

<u>Notice to reader</u> 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.

: 25-February-2005.