Material Safety Data Sheet

DIGICLEAN E FOAM HAND SOAP

Section 1. Chemical product and company identification

Trade name : DIGICLEAN E FOAM HAND SOAP
Product use : Skin Cleaner
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 901412
Date of issue : **26-October-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

Name	CAS number	% by weight
propylene glycol	57-55-6	7 - 13
urea	57-13-6	5- 10
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	1 - 5
ethanol	64-17-5	1 - 5
glycerin	56-81-5	0.5 - 1.5
xylenesulfonic acid, sodium salt	1300-72-7	0.5 - 1.5
4-chloro-3,5-dimethylphenol	88-04-0	0.5 - 1.5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : CAUTION!
MAY CAUSE EYE IRRITATION.
Avoid contact with eyes.
Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
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 if irritation persists.
Skin Contact : Rinse with plenty of running 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. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

Auto-ignition temperature : Not available.

Flash point : > 100°C

Flammable limits

Upper: Not available.

Lower: Not available.

Products of combustion : These products are halogenated compounds, hydrogen chloride.

Fire-fighting media and instructions : Use an extinguishing agent suitable for surrounding fires.

Dike area of fire to prevent product run-off.

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.

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in 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. 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, 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 sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.--

Section 7. Handling and storage

Handling : Avoid contact with eyes. 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 : Eye protection recommended.

Hands : No protective equipment is needed under normal use conditions.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : No protective equipment is needed under normal use conditions.

Name	Exposure limits
ethanol	**ACGIH TLV (United States, 1/2004).** TWA: 1880 mg/m^3 8 hour(s). Form: All forms TWA: 1000 ppm 8 hour(s). Form: All forms
glycerin	**ACGIH TLV (United States, 1/2004).** TWA: 10 mg/m^3 8 hour(s). Form: Mist

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Colour : Green. (Dark.)
Odour : citrus
pH : 9.4 (100%)
Boiling/condensation point : Not available.
Melting/freezing point : Not available.
Specific gravity : 1.067 (Water = 1)
Vapour pressure : Not applicable.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
LogK_{ow} : Not available.

Section 10. Stability and reactivity

Stability : The product is stable.
Conditions of instability : Not available.
Reactivity : Slightly reactive to reactive with acids.
Incompatibility with various substances : Not available.
Hazardous Decomposition Products : These products are halogenated compounds, hydrogen chloride.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
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

Ingredient name	Test	Result	Route	Species
propylene glycol	LD50	18500 mg/kg	Oral	Rabbit
	LD50	>2080 mg/kg	Oral	quail
	LD50	18350 mg/kg	Oral	Guinea pig
	LD50	20800 mg/kg	Dermal	Rabbit
urea	LD50	8471 mg/kg	Oral	Rat
	LDLo	511 mg/kg	Oral	Domestic Animals.
ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	3450 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog
4-chloro-3,5-dimethylphenol	LD50	3830 mg/kg	Oral	Rat
glycerin	LD50	12600 mg/kg	Oral	Rat
	LD50	4090 mg/kg	Oral	Mouse
	LD50	7750 mg/kg	Oral	Guinea pig

Target organs : Contains material which causes damage to the following organs: blood, kidneys, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Ecotoxicity data

Ingredient name	Species	Period	Result
propylene glycol	Daphnia magna (EC50)	48 hour(s)	>10000 mg/l
	Pimephales promelas (LC50)	96 hour(s)	710 mg/l
	Pimephales promelas (LC50)	96 hour(s)	55770 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>62000 mg/l
urea	Daphnia magna (EC50)	48 hour(s)	3910 mg/l
	Poecilia reticulata (LC50)	96 hour(s)	17500 mg/l
acetic acid, (ethylenedinitrilo)tetra-,	Lepomis macrochirus (LC50)	96 hour(s)	486 mg/l
tetrasodium salt	Lepomis macrochirus (LC50)	96 hour(s)	1030 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	2070 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	3092 mg/l
ethanol	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l
4-chloro-3,5-dimethylphenol	Daphnia magna (EC50)	48 hour(s)	7.7 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.36 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.76 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	1.6 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	2.7 mg/l

Products of degradation : These products are carbon oxides (CO, CO_2) and water, nitrogen oxides (NO, NO_2 ...), sulphur oxides (SO_2, SO_3, etc.), halogenated compounds. Some metallic oxides.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised 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
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 : Not a WHMIS controlled material.
DIN02242847

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 : **26-October-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.