

Material Safety Data Sheet



GREASE EXPRESS HIGH TEMP GRILL CLEANER

Section 1. Chemical product and company identification

Trade name : GREASE EXPRESS HIGH TEMP GRILL CLEANER
Product use : Grill Cleaner
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 910312
Date of issue : 23-December-2009

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION!
MAY CAUSE EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

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

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
GLYCERIN	56-81-5	40 - 70
POTASSIUM CARBONATE	584-08-7	7 - 13

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. 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.
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
metal oxide/oxides

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

Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

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 spilt 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 : 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, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt 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 reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Store between the following temperatures: 0 and 50°C

Section 8. Exposure controls/personal protection

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

Name

GLYCERIN

Exposure limits

CA Alberta Provincial (Canada, 4/2009). Skin sensitiser.

8 hrs OEL: 10 mg/m³ 8 hour(s). Form: Mist

CA British Columbia Provincial (Canada, 7/2009).

TWA: 10 mg/m³ 8 hour(s). Form: Mist

TWA: 3 mg/m³ 8 hour(s). Form: Respirable mist

CA Ontario Provincial (Canada, 8/2008).

TWAEV: 10 mg/m³ 8 hour(s). Form: mist

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 10 mg/m³ 8 hour(s). Form: mist

ACGIH TLV (United States, 1/2009).

TWA: 10 mg/m³ 8 hour(s). Form: Mist

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Yellow. [Light]
Odour	: Odourless.
pH	: 11.5 [Conc. (% w/w): 100%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: 1.251
Vapour pressure	: Not available.
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. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: 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	: Slightly irritating to the eyes.
Skin	: Slightly irritating to the skin.
Inhalation	: Slightly irritating to the respiratory system.
Ingestion	: No known significant effects or critical hazards.

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>
potassium carbonate	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	2570 mg/kg	Mouse
	LD50	Oral	1870 mg/kg	Rat
glycerin	LD50	Oral	12600 mg/kg	Rat
	LD50	Oral	4090 mg/kg	Mouse
	LD50	Oral	27 g/kg	Rabbit

Other adverse effects

Target organs	: Contains material which may cause damage to the following organs: kidneys, upper respiratory tract.
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Section 12. Ecological information

Ecotoxicity

Ingredient name	Species	Period	Result
potassium carbonate	Daphnia	48 hours	Acute EC50 430 mg/L
	Daphnia	48 hours	Acute EC50 200 mg/L
	Fish	96 hours	Acute LC50 230 mg/L
	Fish	96 hours	Acute LC50 68 mg/L
	Daphnia - Water flea -	48 hours	Acute LC50 630000 to
	Ceriodaphnia dubia - <24		670000 ug/L Fresh
	hours		water
	Fish - Fathead minnow -	96 hours	Acute LC50 <510000
	Pimephales promelas - 1 to 7		ug/L Fresh water
	days		
Daphnia - Water flea -	48 hours	Acute LC50 650000 to	
	Daphnia magna - <24 hours		820000 ug/L Fresh
glycerin	Fish	96 hours	water
			Acute LC50 54000
			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

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).

Canada inventory : All components are listed or exempted.

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

Hazardous Material Information System (U.S.A.) :	Health	*	1
	Flammability		0
	Physical hazards		0

Date of issue : 23-December-2009.

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

Date of previous issue : 22-January-2007.

Section 16. Other information

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.