

Material Safety Data Sheet



QUIK FILL MAGNUM 860 D-LIMONENE DEGREASER

Section 1. Chemical product and company identification

Trade name : QUIK FILL MAGNUM 860 D-LIMONENE DEGREASER
Product use : Degreaser
Supplier : Ecolab Co.

5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326

Code : 903714-01

Date of issue : 10-March-2010

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 AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

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

Potential acute health effects

Eyes : Moderately irritating to eyes.

Skin : Moderately irritating to the skin. May cause sensitisation by skin contact.

Inhalation : No known significant effects or critical hazards.

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>
alcohols, c12-16, ethoxylated	68551-12-2	5- 10
2-cyclohexene-1-octanoic acid, 5(or 6)-carboxy-4-hexyl-, potassium salt	68127-33-3	1 - 5
Limonene	5989-27-5	1 - 5
TRIETHANOLAMINE	102-71-6	1 - 5

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 for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. 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 Product does not support combustion.
Flammable limits	: Not available.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides 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, skin and clothing. 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. Store between the following temperatures: 10 and 30°C

Section 8. Exposure controls/personal protection

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

Eyes	: Eye protection recommended.
Hands	: Use chemical-resistant, impervious gloves.
Skin	: Use suitable protective equipment.
Respiratory	: A respirator is not needed under normal and intended conditions of product use.

<u>Name</u>	<u>Exposure limits</u>
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TRIETHANOLAMINE

CA Alberta Provincial (Canada, 4/2009). Skin sensitiser.8 hrs OEL: 5 mg/m³ 8 hour(s).**CA British Columbia Provincial (Canada, 7/2009).**TWA: 5 mg/m³ 8 hour(s).**CA Ontario Provincial (Canada, 8/2008).**TWAEV: 3.1 mg/m³ 8 hour(s).

TWAEV: 0.5 ppm 8 hour(s).

CA Quebec Provincial (Canada, 6/2008). Skin sensitiser.TWAEV: 5 mg/m³ 8 hour(s).**ACGIH TLV (United States, 1/2009).**TWA: 5 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Yellow.
Odour	: citrus
pH	: 9 to 10 [Conc. (% w/w): 100%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: 1.004 to 1.024
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
Viscosity	: Dynamic: 100 cP
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	: Moderately irritating to eyes.
Skin	: Moderately irritating to the skin. May cause sensitisation by skin contact.
Inhalation	: No known significant effects or critical hazards.
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	: May cause sensitisation by skin contact.

Synergistic products (toxicologically) : Not available.

Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
(r)-p-mentha-1,8-diene	LD50	Dermal	>5 g/kg	Rabbit
	LD50	Dermal	>5 g/kg	Mammal - species unspecified
	LD50	Oral	5600 mg/kg	Mouse
	LD50	Oral	4400 mg/kg	Rat
	LD50	Dermal	>20 mL/kg	Rabbit
	LD50	Oral	>2200 mg/kg	Rabbit
triethanolamine	LD50	Oral	>4920 uL/kg	Rat
	LDLo	Oral	2 g/kg	Mammal - species unspecified

Other adverse effects

Target organs : Not available.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
(r)-p-mentha-1,8-diene	Daphnia	48 hours	Acute EC50 69.6 mg/L
	Daphnia - Water flea -	48 hours	Acute EC50 69600
	Daphnia pulex - Neonate -		ug/L Fresh water
	<24 hours		
	Fish	96 hours	Acute LC50 0.702 mg/L
triethanolamine	Fish - Rainbow trout,donaldson trout -	4 days	Acute LC50 35000 ug/L Fresh water
	Oncorhynchus mykiss		
	Fish - Fathead minnow -	96 hours	Acute LC50 702 to 796
	Pimephales promelas - 3234		ug/L Fresh water
	days - 21.8 mm - 0.177 g		
	Daphnia - Water flea -	48 hours	Acute EC50 609.98 to
	Ceriodaphnia dubia -		658.3 mg/L Fresh
	Neonate		water
triethanolamine	Fish - Fathead minnow -	96 hours	Acute LC50 11800000
	Pimephales promelas - 30		to 13000000 ug/L
	days - 18.1 mm - 0.083 g		Fresh water
	Crustaceans - Common	48 hours	Acute LC50 >100000
	shrimp, sand shrimp -		ug/L Marine water
	Crangon crangon - Adult		

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 : 10-March-2010.

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

Date of previous issue : 11-January-2008.

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.