

Safety Data Sheet

HIGH PERFORMANCE LIQUID DEGREASER

SECTION 1. IDENTIFICATION

Product Identifier	DÉFI
Other Identification	91063
Recommended Use	High performance liquid degreaser.
Restrictions on Use	All other uses than those indicated on the product label and technical data sheet.
Supplier Identifier	Mayrand Plus, 9701 Boul. Louis-H.Lafontaine, Anjou (Qc) H1J 2A3, Tel.: (450) 255-9330 Quebec Poison Control Centre (24 hours service)
Emergency Phone No.	Quebec, (800) 463-5060 (no charge) All other places, (418) 656-8090 CANUTEC, (613) 996-6666 (collect)

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1; Serious eye damage - Category 1; Health Hazard Not Otherwise Classified (HHNOC) - Category 1

Label Elements



Signal Word:
Danger

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.

Precautionary Statement(s):

P260 Do not breathe dusts or mists.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTRE or doctor.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Métasilicate de sodium	6834-92-0	1-5	Information not available	Information not available
2-Butoxyethanol	111-76-2	1-5	Information not available	Information not available
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	1-5	Information not available	Information not available
Poly(oxy-1,2-ethanediyl), alpha-hydro- omega -hydroxy-, mono-C10-14-alkyl ethers, phosphates	68585-36-4	0.5-1.5	Information not available	Information not available

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Immediately call a Poison Centre or doctor.

Ingestion

Rinse mouth with water. Immediately call a Poison Centre or doctor. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Harmful if inhaled.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Product

In the presence of fire, promptly isolate the scene by removing all persons located near the scene of the accident. Take no action involving any personal risk or without suitable training.

Special Protective Equipment and Precautions for Fire-fighters

It is imperative that firefighters wear protective equipment and a suitable respirator equipped with a mask full-face positive pressure.

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials. Take no action involving any personal risk or without suitable training. 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 and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Flush spill area. Get expert advice before treating the spilled product with other chemicals to make it less hazardous.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid operations that produce a cloud of dust. Never pour water into this product, for dilution slowly add the product to water with constant stirring. Handle away from incompatible materials. Avoid contact with skin. Wear eye protection and, in case of insufficient ventilation, appropriate respiratory protection. Workers handling or transferring corrosive substances should wear appropriate personal protective equipment. This product is corrosive: if handled or transferred regularly or frequently, eyewash stations or emergency showers must be provided to workers and located in the vicinity of the workstation. Avoid contact lenses when handling the product.

Conditions for Safe Storage

Store in an airtight container in a dry, well ventilated place with corrosion resistant cemented floor. Refer to SRST and NFC Standards for Storage. Keep away from combustible materials and acids. If the product is stored with other hazardous substances, refer to the NFC segregation table. Containers of corrosive substances must be kept closed, clearly marked with their contents, and handled with care. Additional information: This product attacks certain types of plastic, rubber or coating.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA

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2-Butoxyethanol	20 ppm	Not established	Not established	Not established	Not established	Not established
Benzenesulfonic acid, C10-16-alkyl derivs.	Not established	Not established	Not established	Not established	Not established	Not established
Métasilicate de sodium	Not established	Not established	Not established	Not established	Not established	Not established
Poly(oxy-1,2-ethanediyl), alpha-hydro- omega -hydroxy-, mono-C10-14-alkyl ethers, phosphates		3 mg/m3				

ACGIH TLV 2012

OSHA PEL 2012

AIHA WEEL 2011.

Appropriate Engineering Controls

The purpose of the Health and Safety Act is to eliminate hazards at the source. Where engineering controls and changes in working procedures are not sufficient to reduce exposure to this substance, the use of personal protective equipment may be necessary. These protective equipment must comply with the regulations.

Individual Protection Measures

Eye/Face Protection

Wear eye protection if splashing is likely. The selection of an eye protector depends on the nature of the work to be performed and, if applicable, on the type of respirator used.

Skin Protection

Wear skin protective equipment. The selection of such equipment depends on the nature of the work to be performed.

Respiratory Protection

Wear appropriate respirator when ventilation is inadequate.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Transparent red liquid.
Odour	solvent
Odour Threshold	Not available
pH	> 13.0
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.0 - 1.1
Solubility	Very soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

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SECTION 10. STABILITY AND REACTIVITY

Reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Keep away from freezing and excessive heat.

Incompatible Materials

Acids.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Butoxyethanol	486 ppm (male rat) (4-hour exposure)	3000 mg/kg (rat)	400 mg/kg (rat)
Benzenesulfonic acid, C10-16-alkyl derivs.		890 mg/kg (rat)	> 2000 mg/kg (rabbit)
Métasilicate de sodium		> 1152-1349 mg/kg (rat)	> 5000 mg/kg (rat)
Poly(oxy-1,2-ethanediyl), alpha-hydro- omega -hydroxy-, mono-C10-14-alkyl ethers, phosphates	Not available	Not available	Not available

LC50 ATEmix = Category 4

LD50 ATEmix = Without category

LD50 Dermal ATEmix = Without category

Skin Corrosion/Irritation

Causes severe skin burns.

Serious Eye Damage/Irritation

Serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Harmful if inhaled.

Ingestion

May cause burns to mouth, throat and stomach.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

The data do not allow an adequate assessment of the carcinogenic effect.

Reproductive Toxicity

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Development of Offspring

No data on teratogenic effects have been found.

Sexual Function and Fertility

No data on reproductive effects have been found.

Germ Cell Mutagenicity

The data do not allow an adequate evaluation of the mutagenic effect.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No known significant effects or critical hazards.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

It is important to minimize or avoid the generation of waste wherever possible. Disposal of this product and solutions must always respect the provisions of the law on environmental protection and waste disposal and must remain in compliance with the requirements of local laws and regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult local or regional authorities.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1760	CORROSIVE LIQUID N.S.A. (Sodium metasilicate)	8	III

Special Precautions Please note: Limited quantity when 5L or less.

SECTION 15. REGULATORY INFORMATION**Safety, Health and Environmental Regulations****Canada****WHMIS 1988 Classification**

D2B - Toxic; E - Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

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Disclaimer Notice to reader and user : The information contained in this document is accurate to the best of our knowledge. however, the above named supplier assumes any liability whatsoever with respect to the accuracy of the informatoin contained in this document. The finl determination ond suitability of any material or product is the sole responsibility of the user. All materials may pose risk and should be used whith caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist .

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