



RED HOT GREASE REMOVER

SECTION 1 - IDENTIFICATION

Product identifier:	RED HOT GREASE REMOVER
Recommended use:	Degreaser
Chemical name:	Mixture
Manufacturer identifier:	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc G0L 2G0 (418) 970-0889
Emergency phone:	Canutec (613) 996-6666 24 hrs

SECTION 2 - HAZARD IDENTIFICATION

Classification	Corrosive to metals 1 Skin corrosion 1A Serious eye damage 1 Specific target organ toxicity, single exposure; Respiratory tract irritation 3 Hazardous to the aquatic environment, acute hazard 3	
Signal word	DANGER	
Hazard statement	H290 H314 H318 H335 H402	May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation. Harmful to aquatic life.
Precautionary statement - Prevention	P234 P260 P264 P271 P273 P280	Keep in original packaging. Do not breathe dust / fume / gas / mist / vapour / spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective Gloves / protective clothing / eye protection / face protection.
Precautionary statement - Response	P390 P301+P330+P331 P303+P361+P353 P363 P304+P340 P310 P321 P305+P351+P338 P308+P311	Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER / doctor. Specific treatment: Treat as chemical burns. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER / doctor.
Precautionary statement - Storage	P405 P406	Store locked up. Store in a corrosion resistant container / container with a resistant inner liner.
Precautionary statement - Elimination	P501	Dispose of contents / container in accordance with municipal regulations, provincial / federal.



SAFETY DATA SHEET

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous product	No. CAS	% (weight)
Sodium metasilicate	6834-92-0	1 – 5 *
Dipropylene glycol methyl ether	34590-94-8	1 – 5 *
N-butoxypropanol	5131-66-8	1 – 5 *
Ethoxylated alcohol C12-C15	68131-39-5	1 – 5 *
Monosodium lauriminodipropionate	14960-06-6	1 – 5 *
Potassium hydroxide	1310-58-3	1 – 5 *

*TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

Inhalation:	
	IF INHALED: remover person to fresh air and keep comfortable for breathing. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
Skin contact:	
	IF ON SKIN: If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing/ jewellery and wash it before reuse. Apply moisturizing cream in case of dry skin.
Eye contact:	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	
	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.
Notes to physician:	
	Specific treatment: Treat as chemical burns. Contact a poison center immediately if large quantity has be ingested or inhaled.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:	In case of fire: Use water, foam, CO2, dry chemicals to extinguish.
Unsuitable extinguishing media:	Stream of water directed into the product will generate large amounts of foam.
Hazardous combustion products:	Carbon oxides, nitrogen oxides, acrid smoke.
Protective equipment:	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
Precautions:	Retain water run-off. Move containers away from fire area if without risk. Use water spray to keep containers cool. During a fire or if heated, there will be a pressure increase, containers may burst.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protective equipment:	
	Wear plastic or rubber gloves if large quantities of bulk are handled. (See Section 8) wear respiratory equipment if ventilation is inadequate.
Containment and clean up:	
	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material (sand, earth, vermiculite, diatomaceous earth) for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
Environmental precautions:	
	Eliminate according to municipal, provincial and federal regulations. Prevent leaking substances from running into the aquatic environment or sewage systems.



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SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	
Containers must be identified correctly. Handle in a well-ventilated area. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse. Do not ingest. Avoid breathing vapours or mist. Wear appropriate respiratory equipment if ventilation is inadequate. Do not enter storage or enclosed areas if ventilation is inadequate.	
Conditions for safe storage:	
Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.	
Incompatible materials:	
Acids, strong oxidants. The product does not polymerise.	

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:			
Ingredient	CAS No.	Source	Value
Sodium metasilicate	6834-92-0		No established limits.
Dipropylene glycol methyl ether	34590-94-8	CSST	TWA 100 ppm (606 mg/m3)
		CSST	STEL 150 ppm (909 mg/m3)
		NIOSH	TWA (100 ppm (600 mg/m3)
		NIOSH	STEL (150 ppm (900 mg/m3)
		NIOSH	IDLH 600 ppm
		OSHA	TWA 100 ppm (600 mg/m3)
N-butoxypropanol	5131-66-8		No established limits.
Ethoxylated alcohol C12-C15	68131-39-5		No established limits.
Monosodium lauriminodipropionate	14960-06-6		No established limits.
Potassium hydroxide	1310-58-3	CSST	C 2 mg/m3
		NIOSH	C 2 mg/m3
Engineering controls:			
Local ventilation system is recommended.			
Protection of airways:			
Not required if ventilation is adequate. Wear a NIOSH approved respiratory equipment if concentrations are superior to recommended maximal limits.			
Protective equipment and clothing:			
Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.			
General hygiene recommendations:			
Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.			

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid, transparent, red.
Odour :	Cherry
Odour threshold:	Not available
pH:	12.50 – 13.50
Melting point:	Not applicable
Initial boiling point:	100°C
Flash point:	Not applicable
Evaporation rate (butyl acetate = 1):	> 1.0
Flammability:	Not applicable
LIL:	Not available
UIL:	Not available
Vapour pressure:	Not available



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Vapour density (air=1):	Not available
Relative density:	1.064
Solubility:	Soluble.
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	< 5 cPs

SECTION 10 - STABILITY AND REACTIVITY

Stability and reactivity:	Stable under recommended conditions and expected usage.
Polymerisation:	No.
Conditions to avoid :	Contact with incompatible materials.
Incompatible materials:	Acids, strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides, nitrogen oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data:				
Dangerous ingredients	CAS No.	%	LD₅₀ (route, species)	LC₅₀ (species)
Sodium metasilicate	6834-92-0	1 – 5	1153 mg/kg, oral, rat	No data
Dipropylene glycol methyl ether	34590-94-8	1 – 5	5180 mg/kg, oral, rat 9500 mg/kg, dermal, rabbit	No data
N-butoxypropanol	5131-66-8	1 – 5	3300 mg/kg, oral, rat >2000 mg/kg, dermal, rabbit	No data
Ethoxylated alcohol C12-C15	68131-39-5	1 – 5	1650 – 2000 mg/kg, oral, rat >2000 mg/kg, dermal, rabbit	No data
Monosodium lauriminodipropionate	14960-06-6	1 – 5	>5000 mg/kg, oral, rat >5000 mg/kg, dermal, rabbit	No data
Potassium hydroxide	1310-58-3	1 – 5	273 mg/kg, oral, rat	No data
Routes of exposure : Inhalation, dermal, eye, ingestion.				
Short term exposure (acute) :				
Inhalation:	Irritating to respiratory tract.			
Skin:	Corrosive. Redness, pain, lesions.			
Eyes:	Corrosive. May cause severe lesions to eyes. Pain, tearing.			
Ingestion:	Corrosive. May cause lesions to mouth, throat, digestive system.			
Long term exposure (chronic) :				
Inhalation:	Not available			
Skin:	Dryness on long term exposure.			
Eyes:	Not available			
Ingestion:	Not available			
Carcinogenicity:	N-Butoxypropanol	5131-66-8	Group 3 : Not classifiable as to its carcinogenicity to humans.	
Teratogenicity:	Not available			
Mutagenicity:	Not available			
Target organ:	Skin, eyes, respiratory tract.			
Conditions aggravated by exposure:	Not available			



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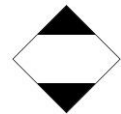
SECTION 12 - ECOLOGICAL INFORMATION

Ingrédients dangereux	No. CAS	%	Valeur	Espèce
Sodium metasilicate	6834-92-0	1 – 5	LC50 210 mg/L, 96h	Brachydanio rerio
Dipropylene glycol methyl ether	34590-94-8	1 – 5	LC50 >1000 mg/L, 96h EC50 1919 mg/L, 48h EC50 969 mg/L, 72h	Poecilia reticulata Daphnia magna Pseudokirchneriella subcapitata
N-butoxypropanol	5131-66-8	1 – 5	LC50 560 – 1000 mg/L, 96h CE50 >1000 mg/L, 48h	Poecilia reticulata Daphnia magna
Ethoxylated alcohol C12-C15	68131-39-5	1 – 5	LC50 5 – 10 mg/L, 96h EC50 5 – 10 mg/L, 48h EC50 10 – 100 mg/L, 72h	Fish Crustaceans Algae
Monosodium lauriminodipropionate	14960-06-6	1 – 5	LC50 10 – 100 mg/L, 96h EC50 1 – 10 mg/L, EC50 10 – 100 mg/L, 72h	Fish Daphnia Chlorella vulgaris
Potassium hydroxide	1310-58-3	1 – 5	LC50 80 mg/L, 24h	Gambusia affinis
Persistence and degradability:	Not available			
Bioaccumulation potential:	Not available			
Mobility in soil:	Not available			
Other adverse effects:	Not available			

SECTION 13 - DISPOSAL CONSIDERATIONS

Safe handling for disposal:	Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.
Methods of disposal :	Dispose contents/containers according to all municipal, provincial and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number	Official designation	Class	Packing group	Placard
UN1760	CORROSIVE LIQUID N.O.S. (Sodium metasilicate)	8	III	
Limited quantity	5 L			

SECTION 15 - REGULATORY INFORMATION

Canadian Environmental Protection Act (CEPA):	Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.
Others:	Components of this product are listed on the TSCA or are exempt.

SECTION 16 - OTHER INFORMATION

Prepared by:	Laboratoire Campeau Inc. (Regulatory Affairs Department) 61 rue des Menuisiers, local 106 Sainte-Anne-Des-Plaines, Qc, J0N 1H0
Telephone:	(514) 642-6669
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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association



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CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.