

CLEANER DEGREASER

SECTION 1 - IDENTIFICATION	
Product identifier:	CLEANER DEGREASER
Recommended use:	Degreaser and cleaner
Chemical name :	Mixture
Chemical group:	Mixture
Manufactured for:	COMERCO SERVICES INC. 3300 Boul. Saint-Martin O. # 300 Laval, Qc, H7T 1A1 (450) 682-9900
Emergency phone:	Canutec (613) 996-6666 24 hrs
SECTION 2 - HAZARD IDENTIFICATION	
Classification	Corrosive to metals 1 Skin corrosion 1A Causes serious eye damage 1 Specific target organ toxicity, single exposure; Respiratory tract irritation 3 Specific target organ toxicity; repeated exposure 2 Hazardous to the aquatic environment, acute hazard 2
Signal word	DANGER
Hazard statement	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statement - Prevention	H402 Harmful to aquatic life. P234 Keep only in original packaging. P260 Do not breathe dust / fume / gas / mist / vapours / spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection.
Precautionary statement - Response	P390 Absorb spillage to prevent material damage. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN: Take off immediately all contaminated clothing Rinse skin with water or shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Precautionary statement - Storage	P310 Immediately call a POISON CENTER / doctor. P321 Specific treatment: Treat as chemical burns. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER / doctor if you feel unwell. P405 Store locked up. P406 Store in a corrosion resistant container with a resistant inner liner.
Precautionary statement - Elimination	P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents / container in accordance with municipal regulations, provincial / federal.



SAFETY DATA SHEET

CLEANER DEGREASER

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous product	No. CAS	% (weight)
Diethylene glycol monobutyl ether	112-34-5	7 - 13 *
Ethoxylated alcohol C9-C11	68439-46-3	5 - 10 *
N-Butoxypropanol	5131-66-8	3 - 7 *
Monoethanolamine	141-43-5	5 - 10 *

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

SECTION 4 - FIRST AID MEASURES

<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Notes to physician: Specific treatment: Treat as chemical burns. Contact a poison center immediately if large quantity has be ingested or inhaled.</p>
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SECTION 5 - FIRE-FIGHTING MEASURES

<p>Suitable extinguishing media: In case of fire: Use water, foam, CO2, dry chemicals to extinguish.</p> <p>Unsuitable extinguishing media: Stream of water directed into the product will generate large amounts of foam.</p> <p>Hazardous combustion products : Carbon oxides, nitrogen oxides, acrid smoke.</p> <p>Protective equipment : Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.</p> <p>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.</p>
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SECTION 6 - ACCIDENTAL RELEASE MEASURES

<p>Protective equipment: Wear plastic or rubber gloves if large quantities of bulk are handled. (See Section 8) wear respiratory equipment if ventilation is inadequate.</p> <p>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.</p> <p>Environmental precautions: Eliminate according to municipal, provincial and federal regulations. Prevent leaking substances from running into the aquatic environment or sewage systems.</p>

SECTION 7 - HANDLING AND STORAGE

<p>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 no enter storage or enclosed areas if ventilation is inadequate.</p> <p>Conditions for safe storage: Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.</p> <p>Incompatible materials : Acids, strong oxidants. The product does not polymerise.</p>

CLEANER DEGREASER

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:			
Ingredient	CAS No.	Source	Value
Diethylene glycol monobutyl ether	112-34-5		No established limits.
Ethoxylated alcohol C9-C11	68439-46-3		No established limits.
N-Butoxypropanol	5131-66-8		No established limits.
Monoethanolamine	141-43-5	CSST CSST NIOSH NIOSH NIOSH OSHA	TWA 3 ppm (7.5 mg/m ³) STEL 6 ppm (15 mg/m ³) TWA 3 ppm (7.5 mg/m ³) STEL 6 ppm (15 mg/m ³) IDHL 30 ppm TWA 3 ppm (7.5 mg/m ³)

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, colourless, transparent.
Odour :	Characteristic to product.
Odour threshold:	Not available
pH :	12.00 – 13.00
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
Vapour density (air=1):	Not available
Relative density:	1.016
Solubility:	Not soluble
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	< 5 sPs

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.

CLEANER DEGREASER

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data:				
Dangerous ingredients	CAS No.	% (weight)	LD₅₀ (route, species)	LC₅₀ (species)
Diethylene glycol monobutyl ether	112-34-5	7 - 13	>2000 mg/kg, oral, rat >2000 mg/kg, dermal, rabbit	No data.
Ethoxylated alcohol C9-C11	68439-46-3	5 - 10	1400 mg/kg, oral, rat >5000 mg/kg, dermal, rabbit	No data.
N-Butoxypropanol	5131-66-8	3 - 7	3300 mg/kg, oral, rat >2000 mg/kg, dermal, rabbit	> 3.4 mg/L, rat, 4h
Monoethanolamine	141-43-5	5 - 10	1515 mg/kg, oral, rat 1018 mg/kg, dermal, rabbit	> 0.180 mg/L, rat, 4h
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			
Conditions aggravated by exposure :	Not available			



SECTION 12 - ECOLOGICAL INFORMATION

Ingrédients dangereux	No. CAS	% (poids)	Valeur	Espèce
Diethylene glycol monobutyl ether	112-34-5	7 - 13	LC50 2000 mg/L, 96h LC50 1300 mg/L, 96h	Menidia menidia Lepomis macrochirus
Ethoxylated alcohol C9-C11	68439-46-3	5 - 10	LC50 8.5 mg/L, 96h EC50 5.3 mg/L, 48h ErC50 1-10 mg/L,	Pimephales promelas Daphnia magna Algues
N-Butoxypropanol	5131-66-8	3 - 7	LC50 560 - 1000 mg/L, 96h EC50 >1000 mg/L, 48h	Poecilia reticulata Daphnia magna
Monoethanolamine	141-43-5	5 - 10	LC50 114 - 194 mg/L, 96h LC50 300 - 1000 mg/L, 96h LC50 227 mg/L, 96h LC50 3684 mg/L, 96h EC50 15 mg/L, 72h	Oncorhynchus mykiss Lepomis macrochirus Pimephales promelas Brachydanio rerio Desmodesmus subspicatus
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.

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SECTION 14 - TRANSPORT INFORMATION				
UN Number	Official designation	Class	Packing group	Placard
UN1760	CORROSIVE LIQUID N.O.S. (Monoethanolamine)	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. 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
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.