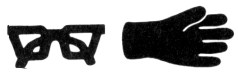
SAFETY DATA SHEET

CLEANER/DEGREASER

Offerte en français

HEALTH CANADA	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
Not regulated		**Not regulated**

SECTION I: IDENTIFICATION

Use: Cleaner and degreaser.

Manufacturer:
ExpertSeal
327 9th Avenue
Richmond (Quebec) J0B 2H0
CANADA
Tel.: 819 826-1000

Distributor:
Resisto Division, Soprema Canada
1675 Haggerty Street
Drummondville (Quebec) J2C 5P7
CANADA
Tel.: 819 478-8408 – 1 877 478-8408

In case of emergency:

SOPREMA (8:00am to 5:00pm): 1 800 567-1492 **CANUTEC (Canada) (24h.): 613 996-6666** **CHEMTREC (USA) (24h.): 1 800 424-9300**

SECTION II: HAZARD(S) IDENTIFICATION

WARNING

Causes serious eye irritation. Causes skin irritation. Harmful if swallowed. May cause respiratory irritation.

Do not eat, drink or smoke when using this product. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves and safety glasses. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of container in accordance with local, regional and national regulations.

SECTION III: COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS

NAME	CAS #	% WEIGHT	EXPOSURE LIMIT (ACGIH)	
			TLV-TWA	TLV-STEL
Diethylene glycol monobutyl ether (DEGBE)	112-34-5	1-15	10 ppm	Not established
Ethylenediaminetetraacetic acid	6381-92-6	1-5	Not established	Not established

Effects of Short-Term (Acute) Exposure

INHALATION

DEGBE: No adverse effects on humans have been reported. This material does not tend to form vapours at normal room temperatures and appears to have a low toxicity in animal tests. Therefore, no short-term health effects are expected unless the material is heated or mists are formed. In severe cases, effects might be like those described for ingestion. (1)

Ethylenediaminetetraacetic acid: Irritating to respiratory system. (2)

SKIN CONTACT

DEGBE: Slightly irritating. Can be absorbed through the skin, but exposure must be severe before health effects are expected. (1)

Ethylenediaminetetraacetic acid: Irritating to skin. (2)

EYE CONTACT

DEGBE: Liquid is moderately to severely irritating. It caused severe eye irritation in rabbit eyes. (1)

Ethylenediaminetetraacetic acid: Irritating to eyes. (2)

INGESTION

DEGBE: No cases have been reported, but early symptoms are expected to be similar to those of alcohol intoxication. Vomiting, bluish colouring of the skin (cyanosis), headache, rapid respiration and heart rate, low blood pressure, muscle tenderness, and unconsciousness may follow. Large or repeated amounts may affect kidney function. (1)

Ethylenediaminetetraacetic acid: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. (2)

Effects of Long-Term (Chronic) Exposure

SKIN

DEGBE: Can be absorbed through the skin in toxic amounts if contact is extensive and prolonged. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

CARCINOGENICITY

DEGBE: No human or animal information is available. The International Agency for Research on Cancer (IARC) has not evaluated the carcinogenicity of this chemical. The American Conference of Governmental Industrial Hygienists (ACGIH) has no listing for this chemical. The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens.

Ethylenediaminetetraacetic acid: No known significant effects or critical hazards. (2)

TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY

DEGBE: No human information is available. See animal toxicity data. The available evidence suggests that most diethylene glycol ethers do not cause reproductive effects. There is some evidence that the monomethyl ether causes reproductive effects in animals. (1)

Ethylenediaminetetraacetic acid: No known significant effects or critical hazards. (2)

REPRODUCTIVE TOXICITY

DEGBE: No human information is available. There was no evidence of reduced fertility in a study with male rats. (1)

Ethylenediaminetetraacetic acid: No known significant effects or critical hazards. (2)

MUTAGENICITY

DEGBE: No human information is available. Does not appear to be mutagenic based on several tests in cultured mammalian and bacterial cells. (1)

Ethylenediaminetetraacetic acid:
No known significant effects or critical hazards. (2)

POTENTIAL FOR ACCUMULATON

DEGBE: None. Ethers of diethylene glycol do not appear to be metabolized to oxalic acid. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

SECTION IV: FIRST-AID MEASURES

EYE CONTACT
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.

SKIN CONTACT
Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

INHALATION
Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.

INGESTION
Immediately call a poison center. Rinse mouth.

SECTION V: FIRE-FIGHTING MEASURES

FLASH POINT: 78°C (172°F) (closed cup) (for DEGBE)
AUTO-IGNITION TEMPERATURE: 204°C (400°F) (for DEGBE)
FLAMMABILITY LIMITS IN AIR: 0.85% - 24.6% (for DEGBE)

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES
Not available.

COMBUSTION PRODUCTS
CO, CO_2, other irritating toxic fumes.

FIRE FIGHTING INSTRUCTIONS
Evacuate area. Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standards. Stop the leak before attempting to stop the fire. If the leak cannot be stopped and if there is no risk to the surrounding area, let the fire burn itself out. Approach fire from upwind and fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move combustible surrounding material out from the fire area if this can be done without risk. Cool this material with flooding quantities of water until well after fire is out.

FIRE FIGHTING MEDIA
Use anti-alcohol or universal foam, dry chemical powder, CO_2 or sand.

SECTION VI: ACCIDENTAL RELEASE MEASURES

RELEASE OR SPILL
Stop or reduce the leak if safe to do so. Absorb with an inert dry material (earth, sand or absorbent material) and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Do not wash this product down the sewage and drainage systems or into bodies of water.

SECTION VII: HANDLING AND STORAGE

HANDLING
This product is non flammable. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapours and dusts. Wash thoroughly after handling. Tightly reseal all partially used containers. Use under appropriate conditions of ventilation. Keep away from heat. Do not cut, puncture or weld empty containers.

STORAGE
Store in a cool well-ventilated area out of direct sunlight and away from heat and ignition sources. An appropriate temperature would be between 15°C and 25°C. Keep away from children.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYES: Safety glasses. Splash goggles.
BODY: No special protective clothing is required.
RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.
HANDS: Impervious gloves.
ENGINEERING CONTROLS: Keep in a cool, well-ventilated place.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Colourless
ODOUR:	Not available
ODOUR THRESHOLD:	Not available
pH (1% Soln/Water):	7.2 to 10.5
VAPOUR DENSITY (air = 1):	Not available
VAPOUR PRESSURE:	Not available
EVAPORATION RATE:	Not available
BOILING/CONDENSATION POINT:	Not available
MELTING/FREEZING POINT:	Not available
SPECIFIC GRAVITY (H_2O = 1):	1.03 ± 0.01 g/cc
SOLUBILITY:	Miscible in water
VOLATILE ORGANIC COMPOUND CONTENT (V.O.C.):	Not available
VOLATILITY:	Not available
VISCOSITY:	Not available
LogK_{ow}:	Not available

SECTION X: STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: This product is stable.
CONDITIONS OF INSTABILITY: None known.
INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Reactive with oxidizing agents, strong acids and strong bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Not available.
HAZARDOUS POLYMERISATION: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA
DEGBE: (1)
LD_{50} (oral, rat): 5 660 mg/kg

Ethylenediaminetetraacetic acid: (2)
LD_{50} (oral, rat): 2 000 mg/kg

Effects of Short-Term (Acute) Exposure

INHALATION
DEGBE: Three rats survived a single 7-hour exposure to an atmosphere saturated with diethylene glycol monobutyl ether (DEGBE) at 100°C and then cooled to room temperature. The animals appeared normal with only a transient weight loss. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

SKIN CONTACT
DEGBE: Only slightly irritating to the skin of rabbits, even on repeated or prolonged contact. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

EYE CONTACT
DEGBE: Severe eye irritant. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

Effects of Long-Term (Chronic) Exposure

INGESTION
DEGBE: Doses of 51 to 1 830 mg/kg/day of DEGBE were fed to rats for 30 day of DEGBEs. The maximum dose having no effect was 51 mg/kg; 94 mg/kg caused a reduction in growth rate. The lowest dose causing harmful cellular changes in the liver, kidney, spleen or testes was 650 mg/kg. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

REPRODUCTIVE TOXICITY

DEGBE: Groups of 25 male rats were given 0, 250, 500, or 1 000 mg/kg orally for 60 days before mating with untreated females. There was no evidence of reduced fertility at any dose. Groups of 20 rabbits had 0, 100, 300, and 1 000 mg/kg/day applied to their skin for 4 hours/day from day 7 to 18 of pregnancy. No embryotoxic or teratogenic effects were observed. Groups of 25 male and female rats were fed 0, 250, or 1 000 mg/kg/day for 60 days (males) or 14 days (females) before mating with untreated animals. No effects on male fertility were observed. (1)

Ethylenediaminetetraacetic acid: No information available. (2)

MUTAGENICITY

DEGBE: The mutagenic effect of DEGBE was investigated in a battery of in vivo and in vitro tests. DEGBE was negative in bacterial tests using different Salmonella strains, the mouse lymphoma test and the cytogenic assay using Chinese hamster ovary cells, all with and without metabolic activation. At higher concentrations (10 µl/ml), all three tests showed positive effects. DEGBE did not induce unscheduled DNA synthesis in cultured rat cells and did not cause chromosome aberrations in cultured Chinese hamster cells with and without metabolic activation. It gave negative results in the in vivo sex-linked recessive lethal assay in Drosophila (fruit flies). (1)

Ethylenediaminetetraacetic acid: No information available. (2)

SECTION XII: ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE INFORMATION

Waste must be disposed of in accordance with federal, provincial and municipal environmental control regulations.

Consult your local or regional authorities.

SECTION XIV: TRANSPORT INFORMATION

This product is not regulated by DOT and TDG.

SECTION XV: REGULATORY INFORMATION

DSL: All constituents of this product are included in the Domestic Substances List (DSL – Canada)

TSCA: All constituents of this product are included on the Toxic Substances Control Act Inventory (TSCA – United States).

Prop. 65:` This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION XVI: OTHER INFORMATION

GLOSSARY

ANSI:	American National Standards Institute (United States)
CAS:	Chemical Abstract Services
CSA:	Canadian Standardization Association
DOT:	Department of Transportation (United States)
EPA:	Environmental Protection Agency (United States)
GHS	Globally Harmonized System
LD_{50}/LC_{50}:	Less high lethal dose and lethal concentration published
RCRA:	Resource Conservation and Recovery Act (United States)
TDG:	Transportation of Dangerous Goods (Canada)
TLV-TWA:	Threshold Limit Value – Time-Weighted Average

References:

(1) CHEMINFO (2015) Canadian Centre of Occupational Health and Safety, Hamilton (Ontario) Canada

(2) Manufacturer's SDS

Code of SDS: **CA U DRU SS FS 131**

For more information: 1 800 567-1492

The Safety Data Sheets of RESISTO Canada are available on Internet at the following site: **www.resisto.ca**

Justification of the update:

- GHS format

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.