

SECTION 1 - IDENTIFICATION

Product identifier/Trade name: RESISTOL GRAFFITI REMOVER

Other means of identification: GRRE

Recommended use: GRAFFITI REMOVER

Restriction on use: For industrial, institutional and food plants use only.

Initial supplier identifier: Chemotec (PM) Inc.
8820 Place Ray-Lawson
Anjou, Quebec, Canada H1J 1Z2
Phone: (514) 729-6321; 1-800-729-6321

Emergency phone number: (613) 996-6666 (CANUTEC)

SECTION 2 - HAZARDS IDENTIFICATION

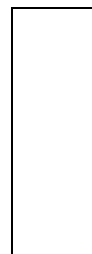
2a GHS (Globally Harmonized System) classification

This product is classified as a skin irritant category 2 and an eye irritant category 2

2b Label elements



Pictogram



Precautionary statement

Wash hands thoroughly after handling. Wear eye protection. Wear rubber gloves.

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.

IF ON SKIN: Wash with plenty water. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.

Signal word:

Warning.

Hazard statements

Causes serious eye irritation. Causes skin irritation.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
2-(2-butoxyethoxy)ethanol	112-34-5	15-40	Eye damage/irritation Category 2
1-Phenoxypropane-2-ol	770-35-4	4-7	Skin Irritation Category 2; Eye Irritation Category 2
Ethoxylated alcohol	68131-39-5	1-5	Eye irritation, category 2 Skin irritation, category 2

SECTION 4 - FIRST AID MEASURES

4a Description of 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 water. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.

Inhalation:

No effect expected.

Ingestion:

Rinse mouth. Call a doctor if you feel unwell. Never give anything by mouth if the person is unconscious

4b Most important symptoms and effects

The most important known symptoms and effects are described in the labelling (section 2b) and/or in section 11.

4c Immediate medical attention and special treatment needed

No data available.

SECTION 5 - FIRE FIGHTING MEASURES

5a Extinguishing media

Suitable extinguishing media:

Water (if possible avoid powerful sprays), foam, dry chemicals, carbon dioxide. Product itself is not flammable.

Unsuitable extinguishing media:

None known.

Specific hazards for product

Hazardous combustion products:

Oxides of carbon, nitrogen and other irritating gases.

Special protective equipment and precautions for firefighters

Special fire-fighting procedures/equipment:

During a fire, irritating smoke and fumes may be generated. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from irritating products produced during the combustion. Move containers from fire area if it can be done without risk. A stream of water directed into the product generates a lot of foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
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6a Personal precautions, protective equipment and emergency procedures

Personal protection:

Avoid contact with eyes and skin. Use adequate aeration and ventilation. Floor will be slippery in case of a spill. Use appropriate personal protection equipment (see section 8)

6b Methods and materials for containment and cleaning:

Stop the leak. For large spills, pump the product into drums or clean up spills using absorbent material. Resume cleaning by rinsing with water. Caution: floors will be slippery.

6c Environmental precautions:

Product is biodegradable but is corrosive. Do not let go to the sewers.

SECTION 7 - HANDLING AND STORAGE

7a Precautions for Safe handling:

Avoid contact with eyes and skin. Wear rubber gloves, protective clothing and eye or face protection. Always add product to water. Use cold water to prevent excessive heat generation.

7b Condition for safe storage:

Store in a sealed container in a well-ventilated place. Do not store with food products. Keep from freezing.

7c Special packaging materials: Store in its original container made of polyethylene. Material may be corrosive to certain metals like aluminium among others.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
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8a Control parameters

	Ontario Time-weighted Average Limit (TWA)	Ontario Short-Term Exposure Limit (STEL)	Notations
No ingredient regulated.			

8b Engineering controls:

Provide adequate ventilation.

8c Individual protection measures

Respiratory Protection:

Not required under normal applications.

Respirator NIOSH/MSHA approved if large spill and lack of ventilation or if formation of mists.

Skin protection and other protective equipment:

Plastic or rubber gloves recommended. Protective clothing. Waterproof boots in case of spills.

Eye / face protection:

Eye protection or face protection.

General hygiene considerations:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes and skin. Never eat, drink, or smoke in work areas. Good hygiene is recommended after use of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour:	Liquide clair, odeur caractéristique
Odour threshold:	N/Av
pH :	5-6
Melting point and freezing point:	Approximately 0 °C
Boiling point:	Approximately 100-240°C
Flash point:	None to boil
Evaporation rate (n-BuAc =1):	Approximately 0.4 (water)
Lower flammable limit (% by volume):	N/Av
Upper flammable limit (% by volume):	N/Av.
Explosion data - Sensitivity to mechanical impact:	Not sensitive
Explosion data - Sensitivity to static discharge:	Not sensitive
Vapour pressure (mm Hg)	Approximately 20 (water)
Vapour density:	Approximately 0.6 (water)
Specific gravity or density (water = 1 at 4 °C):	1.03 g/cm ³ @ 20 °C
Solubility in water:	Miscible
Partition coefficient – n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature	Not available
Viscosity:	<100 cps @ 77°F (25 °C)

SECTION 10 - STABILITY AND REACTIVITY

10a Reactivity:

Not applicable when used as directed. It is incompatible with some materials, see below.

10b Chemical stability :

Stable at room temperature, in normal handling and storage conditions.

10c Possibility of hazardous reactions:

May react with strong oxidizing agents.

10d Conditions to avoid:

Avoid contact with strong oxidizers.

10e Incompatible materials

Strong acids, strong oxidizers, soft metals

10f Hazardous decomposition products:

With strong oxidizers: heat, water vapors, possibly carbon oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Primary entry route(s): Eye and ingestion.

Eye: May cause irritation, redness, tears, burning sensation.

Skin: May cause irritation.

Inhalation: No effect expected.

Ingestion: May cause slight irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

Carcinogenicity:	No ingredient listed by IARC as a possible carcinogen.
Teratogenicity, mutagenicity, other reproductive effects:	No applicable information found.
Skin sensitization:	Ingredients not sensitizing
Respiratory tract sensitization:	Not available
Synergistic materials:	Not available
Other important hazards:	Not available

Toxicological data: The calculated LD₅₀ for this product is greater than 6,000 mg/Kg, oral, rat; our products are not tested on animals. However for corrosive materials, the estimated toxicity is not relevant.

Ingredient	LD ₅₀ (route, species)	LC ₅₀ # hours (species)
2-(2-butoxyethoxy)ethanol	2410 mg/kg (oral, mouse)	Not available
1-Phenoxypropane-2-ol	2,000 mg/kg (oral, rat)	Inhalation rabbit LC50 >6.41 mg/L
Alcohol ethoxylate	2000 mg/kg (oral, rat) 900 mg/kg (dermal, rabbit)	Not available

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
2-(2-butoxyethoxy)ethanol	1300 mg/L	96H	Not available
1-Phenoxypropane-2-ol	280 mg/L	96H	Not available
Alcohol ethoxylate	Bluegill 2.1 mg/L	96H	Not available

TOXICITY (Daphnia)	Results	Exposure time	Method
2-(2-butoxyethoxy)ethanol	100 mg/L	48H	Not available
1-Phenoxypropane-2-ol	EC50 370 mg/L	48H	Not available
Alcohol ethoxylate	1.9 mg/L	48H	Not available

TOXICITY (Algae)	Results	Exposure time	Method
2-(2-butoxyethoxy)ethanol	1101 mg/L	72H	Not available
1-Phenoxypropane-2-ol	EC50 = 100 mg/L	72H	Not available
Alcohol ethoxylate	Selenastrum capricornutum 0.7 mg/L	72H	Not available

- 12b Persistence and degradability:** Product is biodegradable.
- 12c Bioaccumulation potential:** Not available
- 12d Mobility in soil:** There is no test data on this product.
- 12e Other adverse effect** No applicable information found

SECTION 13 - DISPOSAL CONSIDERATIONS

Eliminate according to federal, provincial and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Transportation of Dangerous Goods:

Not regulated

UN number
Proper shipping name:
Class:
Packing group:
Special case:

SECTION 15 - REGULATORY INFORMATION

In Canada

WHMIS information:

Product is regulated according to the *Hazardous Products Regulations* (HPR) in Canada. This product has been classified in accordance with the hazard criteria of the HPR and this MSDS contains all the information required by the HPR.

WHMIS Classification: See section 2a.

CEPA information: Ingredients are listed on the DSL inventory.

SECTION 16 - OTHER INFORMATION

Date of latest revision 2016-04-29

References:

1. Manufacturer'/suppliers' MSDS.
2. Occupational Exposure Limits for Ontario Workplaces required under Regulation 833
3. International Agency for Research on Cancer Monographs
4. The European Chemicals Agency (ECHA) website.

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
cps	Centipoises
DSL	Domestic Substance List
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
LC	Lethal concentration
LD	Lethal Dosage
N/Av	Not available
N/Ap	Not Applicable
NFPA	National Fire Protection Association
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
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS