SECTION 1 - IDENTIFICATION

Product identifier/Trade name:	RESISTOL BOOM FLOOR STIPPER
Other means of identification:	BOOM
Recommended use:	Stripper for floor finishes
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 WHMIS 2015 - GHS (Globally Harmonized System) classification

This product is classified as:
Skin Corrosion/Irritation — category 1
Serious eye damage/eye irritation — category 1
Acute oral toxicity — category 4

2b Label elements

Pictogram
Precautionary statement

Do not breathe mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear rubber gloves, protective clothing, eye or face protection.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
Storage: Store locked up. Keep only in original packaging.
Disposal: Dispose of contents and container in accordance with local, provincial and federal regulations.

Signal word:

Danger

Hazard statement

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Monoethanolamine	141-43-5	10-30	Oral toxicity, category 4; Dermal toxicity, category 4 Inhalation toxicity, category 4 Eye damage/Irritation, category 1 Skin corrosion/Irritation, category 1
Sodium hydroxide	1310-73-2	1-2	Skin Corrosion/Irritation Category 1A; Eye damage/Irritation Category 1
Ethyleneglycol monobutyl ether	111-76-2	10-25	Skin Corrosion/Irritation Category 2; Eye damage/Irritation Category 2 Acute toxicity, oral, dermal, by inhalation Category 4.
Ethyleneglycol monophenyl ether	122-99-6	5-10	Oral toxicity, category 4; Eye 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. Immediately call a POISON CENTER or doctor.

Skin contact:
Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor**.**

Inhalation:
Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
Ingestion:
Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.
4b Most important symptoms and effects

Eye: Causes burns, irritation, redness, tears, burning sensation.
Skin: Causes burns and irritation which could be severe if not rinsed rapidly.
Inhalation: Causes burns and irritation of respiratory tract.
Ingestion: Causes irritation, burns, headache, abdominal pain, diarrhoea, nausea and vomiting.

4c Immediate medical attention and special treatment needed
Swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. No specific antidote. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination.

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, ammonia 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

6a Personal precautions, protective equipment and emergency procedures
Personal protection:

Avoid contact with eyes and skin. Avoid breathing vapours. Use adequate aeration and ventilation. Wear gloves, waterproof boots, safety glasses and in case of a major spill and if necessary, wear a mask for organic vapours. Floor will be slippery in case of a spill.

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:
Do not let large quantities go to the sewers.

SECTION 7 - HANDLING AND STORAGE

7a Precautions for safe handling:
Avoid contact with eyes and skin. Avoid breathing vapours. Wear gloves, safety glasses and non-slippery footwear.

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: none.

Avoid contact with acids and strong oxidizers.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8a Control parameters

	Ontario Time-weighted Average Limit (TWA)	Ontario Short-Term Exposure Limit (STEL)	Notations
Monoethanolamine	3 ppm	6 ppm	
Ethyleneglycol monobutyl ether	20 ppm		
Sodium hydroxide		Ceiling limit 2 mg/m^3	
Ethyleneglycol monophenyl ether			

8b Engineering controls:
Good ventilation.

8c Individual protection measures

Respiratory Protection:
If exposure limits are exceeded, respirator for organic vapours.

Skin protection and other protective equipment:
Waterproof non-slippery boots. Rubber gloves.

Eye / face protection:
Safety glasses

General hygiene considerations:
KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes and skin. Avoid breathing vapours. 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:	Yellow liquid, lemon and solvent odour
Odour threshold:	Not available
pH :	Approximately 13
Melting point and freezing point:	Approximately 0 ^{o}C
Boiling point:	Approximately 100 ^{o}C
Flash point:	Greater than 93°C.
Evaporation rate (n-BuAc =1):	Not available
Lower flammable limit (% by volume):	Not available
Upper flammable limit (% by volume):	Not available.
Explosion data - Sensitivity to mechanical impact:	Not sensitive
Explosion data - Sensitivity to static discharge:	Not sensitive
Vapour pressure (mm Hg)	Not available
Vapour density:	Not available

Specific gravity or density (water = 1 at 4 °C):	1.01 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 @ 25 °C

SECTION 10 - STABILITY AND REACTIVITY

10a Reactivity:
Not applicable when used as directed.

10b Chemical stability :
Stable at room temperature, in normal handling and storage conditions.

10c Possibility of hazardous reactions:
No polymerisation

10d Conditions to avoid:
Product may decompose at high temperatures.

10e Incompatible materials
Acids, strong oxidizers.

10f Hazardous decomposition products:
With oxidizers: oxides of carbon and nitrogen; with acids: heat, water vapour.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity

Eye:	Causes burns, irritation, redness, tears, burning sensation.
Skin:	Causes burns, irritation which could be severe if not rinsed rapidly.
Inhalation:	Causes burns, irritation of respiratory tract.
Ingestion:	Causes burns, irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

Carcinogenicity:	No ingredient listed by IARC as a possible carcinogen. In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases in tumors were observed in mice but not rats. The effects are not believed to be relevant to humans. If the material is handled in accordance with proper industrial handling procedures, exposures should not pose a carcinogenic risk to man.
Teratogenicity, mutagenicity, other reproductive effects:	Not available
Skin sensitization:	Ingredients not sensitizing
Respiratory tract sensitization:	Not available
Synergistic materials:	Not available
Other important hazards:	Not available

Toxicological data: The calculated LD_{50} for this product is approximately 1,800 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD_{50} (route, species)	LC_{50} # hours (species)

Monoethanolamine	1,089 mg/Kg (oral, rat) 2504 mg/Kg (dermal, rat)	Estimate LC50, 4H vapour, rat >1.48 mg/L
Ethyleneglycol monobutyl ether	615 mg/kg (oral, rat) >2,000 mg/kg (dermal, rabbit)	Not available
Ethyleneglycol monophenyl ether	1,400 mg/kg (oral, rat) 5,000 mg/kg (dermal, rabbit)	Not available
Sodium hydroxide	325 mg/kg (oral, rat)	Not available

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
Monoethanolamine	Cyprinus carpio (carpe) LC50 349 mg/L	96H	Not available
Ethyleneglycol monobutyl ether	Rainbow trout 1474 mg/L	96H	Not available
Sodium hydroxide	Gambusia affinis 125 mg/L	96H	Not available
Ethyleneglycol monophenyl ether	Pimephales promelas 344 mg/L	96H	Not available

TOXICITY (Daphnia)	Results	Exposure time	Method
Monoethanolamine	EC50 = 120 mg/L	24H	Not available
Ethyleneglycol monobutyl ether	EC50 = 1,550 mgL	48H	Not available
Sodium hydroxide	40.4 mg/L		
Ethyleneglycol monophenyl ether	Not available		

TOXICITY (Algea)	Results	Exposure time	Method
Monoethanolamine	Selenastrum capricornutum 2.8 mg/l	72H	Not available
Ethyleneglycol monobutyl ether	Pseudokirchnerella subcapitata 1,840 mg/L	72H	Not available
Sodium hydroxide	Not available		
Ethyleneglycol monophenyl ether	Desmodesmus subspicatus EC50 >500 mg/L	72H	Not available

12b Persistence and degradability: Product is readily 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 (TDG) in Canada :

UN number	UN3267
Proper shipping name:	CORROSIVE LIQUID BASIC, ORGANIC, N.O.S.(Ethanolamine)
Class:	8
Identification number:	UN3267
Packing group:	III
Special case:	Not applicable

SECTION 15 - REGULATORY INFORMATION

In Canada

WHMIS information:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and this safety data sheet (SDS) 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 2017-07-20

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