



# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

Material name	PRODUCTO® SP-787XL
	INDUSTRIAL CLEANER
Version #	01
Issue date	09-05-2014
CAS #	Mixture
MSDS Number	Not applicable
Recommended use	INDUSTRIAL CLEANER
Manufacturer	
Company name	CIMCOOL® Industrial Products LLC 3000 Disney Street Cincinnati, Ohio 45209
Telephone (General Information)	513-458-8199
Emergency telephone number	1-800-424-9300 (CHEMTREC)
Emergency telephone number (outside USA)	1-703-527-3887 (CHEMTREC)
Supplier	
Company name	Milacron Canada Corp.
Address	1175 Appleby Line Road, Unit B-1 Burlington Ontario L7L5H9 Canada
Telephone (General Information)	905-319-1919
Emergency telephone number (outside USA)	1-703-527-3887 (CHEMTREC)

## 2. Hazards Identification

Emergency overview	Causes eye irritation. Causes skin irritation. May be harmful if swallowed. May cause irritation of respiratory tract. Avoid prolonged contact with eyes, skin and clothing.
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Causes eye irritation. Do not get this material in contact with eyes.
Skin	Causes skin irritation. Avoid contact with the skin.
Inhalation	May cause irritation of respiratory tract. Prolonged inhalation may be harmful.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not ingest.

## 3. Composition/Information on Ingredients

Components	CAS #	Percent
MONOETHANOLAMINE	141-43-5	10 - 30
TRIETHANOLAMINE	102-71-6	1 - 5
2-N-BUTYL-BENZO[D]ISOTHIAZOL-3-ONE	4299-07-4	0.1 - 1
Other components below reportable levels		60 - 100

## 4. FIRST AID MEASURES

### First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
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<b>Skin contact</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention. Wash clothing separately before reuse.
<b>Inhalation</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly. Drink 1 or 2 glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General advice</b>	If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

## 5. FIRE FIGHTING MEASURES

<b>Flammable properties</b>	The product is not flammable.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO <sub>2</sub> ). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Not applicable, non-combustible.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Protective equipment for firefighters</b>	Wear suitable protective equipment.
<b>Fire fighting equipment/instructions</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.
<b>Explosion data</b>	
<b>Sensitivity to static discharge</b>	Not applicable.
<b>Sensitivity to mechanical impact</b>	Not applicable.
<b>Hazardous combustion products</b>	Smoke, fumes, oxides of nitrogen, and oxides of carbon
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
<b>Environmental precautions</b>	Use appropriate containment to avoid environmental contamination. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
<b>Methods for containment</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	Local authorities should be advised if significant spillages cannot be contained. This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.
<b>Other information</b>	Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

### Handling

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe vapor. Do not ingest. Do not get this material on clothing. Avoid contact with skin and eyes. Avoid prolonged and repeated contact. Observe good industrial hygiene practices. Wash thoroughly after handling. Wash contaminated clothing before reuse. When using, do not eat, drink or smoke. Practice good housekeeping. Handle and open container with care. Do not empty into drains.

### Storage

To maintain product quality, do not store in heat or direct sunlight. Use care in handling/storage. Keep this material away from food, drink and animal feed. Keep containers closed when not in use. Store in original container. Store away from incompatible materials (see Section 10 of the MSDS). Do not allow material to freeze. Room temperature - normal conditions. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

	Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

	Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3
		6 ppm
	TWA	7.5 mg/m3
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

	Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

	Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

	Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	3.1 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	0.5 ppm

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL 15 mg/m3 6 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA 7.5 mg/m3 5 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA 3 ppm
<b>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</b>	
Type	Value
MONOETHANOLAMINE (CAS 141-43-5)	PEL 6 mg/m3 3 ppm

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Engineering controls**

Ensure compliance with applicable exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

**Personal protective equipment**

<b>Eye / face protection</b>	Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.
<b>Skin protection</b>	Wear suitable protective clothing and gloves. Use protective gloves made of: Nitrile.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.

**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Appearance</b>	CLEAR
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Not available.
<b>Odor</b>	CHEMICAL
<b>Odor threshold</b>	Not available.
<b>pH</b>	11.0
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	> 212 °F (> 100 °C)
<b>Melting point/Freezing point</b>	< 32 °F (< 0 °C)
<b>Solubility (water)</b>	100 % Water Miscible
<b>Specific gravity</b>	1.016
<b>Relative density</b>	Not available.
<b>Flash point</b>	Not Applicable
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Evaporation rate</b>	Like water when diluted
<b>Other data</b>	
<b>pH in aqueous solution</b>	10.3 @ 4%
<b>VOC ASTM D2369</b>	14 %

## 10. Stability and Reactivity

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Strong acids. Strong oxidizing agents. Avoid contact with oxidizers or reducing agents.
<b>Hazardous decomposition products</b>	Smoke, fumes, oxides of nitrogen, and oxides of carbon
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

Components	Species	Test Results
2-N-BUTYL-BENZO[D]ISOTHIAZOL-3-ONE (CAS 4299-07-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.329 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	4267 - 4732 mg/kg
MONOETHANOLAMINE (CAS 141-43-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	1025 mg/kg
<i>Inhalation</i>		
LC50	Mouse	> 1210 mg/m <sup>3</sup>
<i>Oral</i>		
LD50	Guinea pig	620 mg/kg
	Mouse	700 mg/kg
	Rat	1515 mg/kg
<i>Other</i>		
LD50	Mouse	50 mg/kg
	Rat	67 mg/kg
TRIETHANOLAMINE (CAS 102-71-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Oral</i>		
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
<i>Other</i>		
LD50	Mouse	1450 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Acute effects</b>	May cause an allergic skin reaction. May be harmful if swallowed. May cause respiratory irritation.
<b>Sensitization</b>	May cause sensitization by skin contact.
<b>Chronic effects</b>	Prolonged exposure may cause chronic effects.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### IARC Monographs. Overall Evaluation of Carcinogenicity

TRIETHANOLAMINE (CAS 102-71-6)

3 Not classifiable as to carcinogenicity to humans.

**Symptoms and target organs** Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Defatting of the skin. May cause an allergic skin reaction.

**Further information** Symptoms may be delayed.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

Components	Species	Test Results
2-N-BUTYL-BENZO[D]ISOTHIAZOL-3-ONE (CAS 4299-07-4)		
<b>Acute</b>		
Crustacea	EC50	Daphnia
<b>Aquatic</b>		
<b>Acute</b>		
Fish	LC50	Bluegill (Lepomis macrochirus)
MONOETHANOLAMINE (CAS 141-43-5)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
TRIETHANOLAMINE (CAS 102-71-6)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)
Fish	LC50	Fathead minnow (Pimephales promelas)
10610 - 13010 mg/l, 96 hours		

\* Estimates for product may be based on additional component data not shown.

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence and degradability** Not available.

**Partition coefficient**

MONOETHANOLAMINE	-1.31
TRIETHANOLAMINE	-1

**Mobility in environmental media** This product is miscible in water.

## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Consult authorities before disposal. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## 14. Transport Information

**TDG**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

## 15. REGULATORY INFORMATION

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status** Controlled

**WHMIS classification** D2B - Other Toxic Effects-TOXIC

**Inventory status**

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. OTHER INFORMATION**

<b>HMIS® ratings</b>	Health: 2 Flammability: 0 Physical hazard: 0
<b>NFPA ratings</b>	Health: 2 Flammability: 0 Instability: 0
<b>Disclaimer</b>	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
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