

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Spray Nine® Grez-Off® Engine Degreaser  
**Other means of identification** C12550  
**Recommended use** Degreaser  
**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** ITW Permatex Canada  
**Address** c/o ITW Global Brands Canada  
2360 Bristol Circle, Suite 101  
Oakville, ON L6H 6M5

**Telephone** Not available.

**e-mail** Not available.

**Emergency phone number** 1-877-504-9352

**Supplier** See above.

## 2. Hazard identification

**Physical hazards** Flammable aerosols Category 1  
Gases under pressure Liquefied gas

**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Sensitization, skin Category 1  
Carcinogenicity Category 1

**Environmental hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
May cause cancer.

### Precautionary statement

**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapour. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace.

**Response** IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).  
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 CENTRE/doctor.  
IF exposed or concerned: Get medical advice/attention.

**Storage** Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Amides, coco, N,N-bis(hydroxyethyl)		68603-42-9	1 - 5 *
Butane		106-97-8	7 - 13 *
d-Limonene		5989-27-5	1 - 5 *
Dodecylbenzene sulphonic acid		27176-87-0	0.1 - 1 *
Ethanol		64-17-5	7 - 13 *
Ethanol, 2,2"-iminobis-		111-42-2	0.1 - 1 *
Monoethanolamine		141-43-5	0.5 - 1.5 *
Sodium metasilicate		6834-92-0	0.5 - 1.5 *

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** \*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).
<b>Eye contact</b>	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 CENTRE/doctor.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Dry chemical powder. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. 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.
<b>General fire hazards</b>	Extremely flammable aerosol. Contents under pressure. Pressurised container may explode when exposed to heat or flame.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapour. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Avoid breathing mist or vapour. Provide adequate ventilation. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash thoroughly after handling. When handling, do not eat, drink or smoke.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store locked up.

## 8. Exposure controls/Personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	1000 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	

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

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1000 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3 1000 ppm
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	TWA	2 mg/m3
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m3
		6 ppm
	TWA	7.5 mg/m3 3 ppm

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

Components	Type	Value
Butane (CAS 106-97-8)	STEL	750 ppm
	TWA	600 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	TWA	2 mg/m3

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

Components	Type	Value
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm

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

Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	1000 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	

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

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	800 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	

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

Components	Type	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3	
		1000 ppm	
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	TWA	13 mg/m3	
		3 ppm	
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m3	
		TWA	6 ppm
			7.5 mg/m3
		3 ppm	

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

**Canada - Alberta OELs: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**Canada - British Columbia OELs: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**Canada - Manitoba OELs: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**Canada - Ontario OELs: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**Canada - Quebec OELs: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**Canada - Saskatchewan OELs: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Can be absorbed through the skin.

**Appropriate engineering controls** Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

<b>Skin protection</b>	
<b>Hand protection</b>	Natural or butyl rubber, nitrile or neoprene gloves. Confirm with a reputable supplier first.
<b>Other</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

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## 9. Physical and chemical properties

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<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquefied gas.
<b>Colour</b>	White
<b>Odour</b>	Citrus
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	98 °C (208.4 °F)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	45 psig @ 21°C
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.98
<b>Solubility(ies)</b>	
<b>Solubility (Water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

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## 10. Stability and reactivity

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<b>Reactivity</b>	May react with incompatible materials.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid</b>	Heat. Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

Components	Species	Test results
Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, EPA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, HSDB 12200 mg/kg, HSDB
Butane (CAS 106-97-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Mouse	539600 ppm, 120 Minutes, ECHA 520400 ppm, 120 Minutes, ECHA 1237 mg/L, 120 Minutes 680 mg/L, 2 Hours, HSDB 57 %, 120 Minutes, ECHA 52 %, 120 Minutes
	Rat	> 800000 ppm, 10 Minutes, ECHA 1442738 mg/m3, 10 Minutes, ECHA 1354944 mg/m3, 10 Minutes, ECHA 570000 ppm, 10 Minutes, ECHA 276000 ppm, 4 Hours, CCOHS 1443 mg/L, 10 Minutes, ECHA 1355 mg/L, 10 Minutes
	Not available	
<i>Oral</i>		
LD50	Not available	
d-Limonene (CAS 5989-27-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	5 g/kg, HSDB
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	5600 - 6600 mg/kg, HSDB
	Rat	> 2000 mg/kg, ECHA 4400 mg/kg, Fisher Scientific

Components	Species	Test results
Dodecylbenzene sulphonic acid (CAS 27176-87-0)		
<b>Acute</b>		
LC50	Not available	
<i>Dermal</i>		
LD50	Not available	
<i>Oral</i>		
LD50	Rat	890 mg/kg, HSDB 650 mg/kg, ECHA
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 15800 mg/kg, SIDS initial assessment report
<i>Inhalation</i>		
LC50	Cat	85.4 mg/L, 4.5 Hours, ECHA 43.7 mg/L, 6 Hours, ECHA
	Mouse	> 60000 ppm, 60 Minutes, ECHA 79.4 mg/L, 134 Minutes, ECHA
	Rat	> 115.9 mg/L, 4 Hours, ECHA 31623 ppm, 4 Hours, HMIRA 20000 ppm, 10 Hours, HSDB 51.3 mg/L, 6 Hours, ECHA
<i>Oral</i>		
LD50	Dog	5.5 g/kg, HSDB
	Guinea pig	5600 mg/kg, HSDB
	Monkey	6000 mg/kg
	Mouse	10500 ml/kg, ECHA 3450 mg/kg, SAX
	Pig	> 5000 mg/kg, ECHA
	Rat	1187 - 2769 mg/kg, ECHA 12400 mg/kg, ECHA 10470 mg/kg, ECHA 7800 ml/kg, ECHA
Ethanol, 2,2"-iminobis- (CAS 111-42-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	11.9 ml/kg, HSDB
	Rat	8328 mg/kg, RTECS
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	2500 mg/kg, ECHA 1820 mg/kg, ECHA 1600 mg/kg, ECHA 1100 mg/kg, ECHA 710 mg/kg, HSDB
Monoethanolamine (CAS 141-43-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2881 mg/kg, 24 Hours, ECHA 2504 mg/kg, 24 Hours 1018 mg/kg, HMIRA

Components	Species	Test results
		1000 mg/kg, CCOHS 2.5 - 2.8 ml/kg, 24 Hours
<i>Inhalation</i> LC50	Mouse	1210 mg/m <sup>3</sup> , 4 Hours, CCOHS 484 ppm, 4 Hours, CCOHS 1.2 mg/L, 4 Hours, CCOHS > 1.3 mg/L, 6 Hours, ECHA
	Rat	
<i>Oral</i> LD50	Guinea pig	620 mg/kg, HSDB, CCOHS
	Mouse	1475 mg/kg, CCOHS 700 mg/kg, SAX, CCOHS
	Rat	1970 mg/kg, CCOHS 1720 mg/kg, CCOHS, SIGMA 1515 mg/kg, ECHA 1089 mg/kg, ECHA 1.2 ml/kg, ECHA 1.1 ml/kg, ECHA
Sodium metasilicate (CAS 6834-92-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 2.1 mg/L, 4 Hours
<i>Oral</i>		
LD50	Mouse	770 - 820 mg/kg, ECHA 666.7 - 1008.6 mg/kg, ECHA 2400 mg/kg, Patty's Industrial Hygiene and Toxicology 770 - 820 mg/kg, ECHA 666.7 - 1008.6 mg/kg, ECHA 661.5 - 896.3 mg/kg
	Rat	1189.6 - 1530 mg/kg, ECHA 1152 - 1349 mg/kg, ECHA 1280 mg/kg, Patty's Industrial Hygiene and Toxicology 1189.6 - 1530 mg/kg, ECHA 1152 - 1349 mg/kg, ECHA 994.7 - 1335.9 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	



## Respiratory or skin sensitisation

### Canada - Alberta OELs: Irritant

Monoethanolamine (CAS 141-43-5) Irritant

**Respiratory sensitisation** Not a respiratory sensitizer.

**Skin sensitisation** May cause an allergic skin reaction. Based on published data, if contact is repeated and prolonged, monoethanolamine may cause liver and kidney damage. These effects have not been observed in humans.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer. See below.

### ACGIH Carcinogens

Ethanol, 2,2"-iminobis- (CAS 111-42-2) A3 Confirmed animal carcinogen with unknown relevance to humans.

### Canada - Manitoba OELs: carcinogenicity

DIETHANOLAMINE, INHALABLE FRACTION AND VAPOR (CAS 111-42-2) Confirmed animal carcinogen with unknown relevance to humans.

ETHANOL (CAS 64-17-5) Confirmed animal carcinogen with unknown relevance to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9) Volume 101 - 2B Possibly carcinogenic to humans.

d-Limonene (CAS 5989-27-5) Volume 73 - 3 Not classifiable as to carcinogenicity to humans.

Ethanol (CAS 64-17-5) Volume 44, Volume 96, Volume 100E

Volume 96, Volume 100E

Ethanol, 2,2"-iminobis- (CAS 111-42-2) Volume 77, Volume 101 - 2B Possibly carcinogenic to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Based on published data, if contact is repeated and prolonged, monoethanolamine may cause liver and kidney damage. These effects have not been observed in humans.

**Further information** Not available.

## 12. Ecological information

**Ecotoxicity** See below

### Ecotoxicological data

Components		Species	Test results
d-Limonene (CAS 5989-27-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	69.6 mg/L, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	0.619 - 0.796 mg/L, 96 hours
Dodecylbenzene sulphonic acid (CAS 27176-87-0)			
Crustacea	EC50	Daphnia	5.88 mg/L, 48 Hours
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	7.7 - 11.2 mg/L, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/L, 96 hours
Ethanol, 2,2"-iminobis- (CAS 111-42-2)			
Algae	IC50	Algae	7.8 mg/L, 72 Hours
Crustacea	EC50	Daphnia	55 mg/L, 48 Hours
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	100 mg/L, 96 hours
Monoethanolamine (CAS 141-43-5)			
Algae	IC50	Algae	15 mg/L, 72 Hours
Crustacea	EC50	Daphnia	65 mg/L, 48 Hours

Components	Species	Test results
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
Sodium metasilicate (CAS 6834-92-0)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)
Fish	LC50	Western mosquitofish (Gambusia affinis)
<b>Persistence and degradability</b>	No data is available on the degradability of this product.	
<b>Bioaccumulative potential</b>		
<b>Mobility in soil</b>	No data available.	
<b>Mobility in general</b>	Not available.	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

<b>General</b>	Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
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#### Transportation of Dangerous Goods (TDG - Canada)

##### Basic shipping requirements:

<b>UN number</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS, flammable
<b>Hazard class</b>	2.1
<b>Special provisions</b>	80, 107

TDG



### 15. Regulatory information

<b>Canadian federal regulations</b>	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
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#### Canada DSL Challenge Substances: Listed substance

Butane (CAS 106-97-8)	Listed
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#### Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Butane (CAS 106-97-8)	1 TONNES
d-Limonene (CAS 5989-27-5)	1 TONNES
Ethanol (CAS 64-17-5)	1 TONNES

#### Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### Greenhouse Gases

Not listed.

