

## 1. Identification

<b>Product identifier</b>	<b>Nu-Blast, Aerosol (4290-75)</b>
<b>Other means of identification</b>	Not available.
<b>Recommended use</b>	Coil Cleaner/Degreaser
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer</b>	
<b>Company name</b>	Nu-Calgon
<b>Address</b>	2611 Schuetz Road St. Louis, MO 63043 United States
<b>Telephone</b>	314-469-7000 / 800-554-5499
<b>E-mail</b>	Not available.
<b>Emergency phone number</b>	1-800-424-9300 (CHEMTREC)
<b>Supplier</b>	See above.

## 2. Hazard identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
<b>Environmental hazards</b>	Not classified.	
<b>WHMIS 2015 defined hazards</b>	Not classified	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer.
<b>Precautionary statement</b>	
<b>Prevention</b>	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. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
<b>Response</b>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical 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. If eye irritation persists: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF exposed or concerned: Get medical attention.
<b>Storage</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of container in accordance with local, regional, national and international regulations.

<b>WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)</b>	None known
<b>WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)</b>	None known
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

### 3. Composition/Information on ingredients

#### Mixture

Chemical name	Common name and synonyms	CAS number	%
Carbon dioxide		124-38-9	1-5*
Epichlorohydrin		106-89-8	0.1-1*
Oils, orange, sweet		8008-57-9	5-10*
Trichloroethylene		79-01-6	80-100*

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

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.  
\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

### 4. First-aid measures

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical 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. If eye irritation persists: Get medical attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Immediate medical attention is required. 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. Wear impervious gloves and chemical splash goggles.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Extremely flammable aerosol.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. 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.  Large Spills: 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.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wear personal protective equipment. When using, do not eat, drink or smoke. Wash thoroughly after handling. Keep container tightly closed.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. 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.

## 8. Exposure controls/Personal protection

### Occupational exposure limits

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup>
		30000 ppm
	TWA	9000 mg/m <sup>3</sup>
		5000 ppm
Epichlorohydrin (CAS 106-89-8)	TWA	1.9 mg/m <sup>3</sup>
		0.5 ppm
Trichloroethylene (CAS 79-01-6)	STEL	537 mg/m <sup>3</sup>
		100 ppm
	TWA	269 mg/m <sup>3</sup>
		50 ppm

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
Epichlorohydrin (CAS 106-89-8)	TWA	0.1 ppm
Trichloroethylene (CAS 79-01-6)	STEL	25 ppm
	TWA	10 ppm

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Epichlorohydrin (CAS 106-89-8)	TWA	0.5 ppm

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

Components	Type	Value
Trichloroethylene (CAS 79-01-6)	STEL	25 ppm
	TWA	10 ppm

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Epichlorohydrin (CAS 106-89-8)	TWA	0.5 ppm
Trichloroethylene (CAS 79-01-6)	STEL	25 ppm
	TWA	10 ppm

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup>
		30000 ppm
	TWA	9000 mg/m <sup>3</sup> 5000 ppm
Epichlorohydrin (CAS 106-89-8)	TWA	7.6 mg/m <sup>3</sup> 2 ppm
	Trichloroethylene (CAS 79-01-6)	STEL
		200 ppm
TWA		269 mg/m <sup>3</sup> 50 ppm

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	15 minute	30000 ppm
	8 hour	5000 ppm
Epichlorohydrin (CAS 106-89-8)	15 minute	1.5 ppm
	8 hour	0.5 ppm
Trichloroethylene (CAS 79-01-6)	15 minute	100 ppm
	8 hour	50 ppm

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m <sup>3</sup> 5000 ppm
	Epichlorohydrin (CAS 106-89-8)	PEL

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
Trichloroethylene (CAS 79-01-6)	Ceiling	200 ppm
	TWA	100 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
	TWA	5000 ppm
Epichlorohydrin (CAS 106-89-8)	TWA	0.5 ppm
Trichloroethylene (CAS 79-01-6)	STEL	25 ppm
	TWA	10 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup> 30000 ppm
	TWA	9000 mg/m <sup>3</sup> 5000 ppm
Trichloroethylene (CAS 79-01-6)	Ceiling	2 ppm
	TWA	25 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Trichloroethylene (CAS 79-01-6)	15 mg/L	Trichloroacetic acid	Urine	*
	0.5 mg/L	Trichloroethanol, without hydrolysis	Blood	*

\* - For sampling details, please see the source document.

**Exposure guidelines****Canada - Alberta OELs: Skin designation**

Epichlorohydrin (CAS 106-89-8) Can be absorbed through the skin.

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

Epichlorohydrin (CAS 106-89-8) Can be absorbed through the skin.

**Canada - Manitoba OELs: Skin designation**

Epichlorohydrin (CAS 106-89-8) Danger of cutaneous absorption

**Canada - Ontario OELs: Skin designation**

Epichlorohydrin (CAS 106-89-8) Can be absorbed through the skin.

**Canada - Quebec OELs: Skin designation**

Epichlorohydrin (CAS 106-89-8) Can be absorbed through the skin.

**Canada - Saskatchewan OELs: Skin designation**

Epichlorohydrin (CAS 106-89-8) Can be absorbed through the skin.

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

Epichlorohydrin (CAS 106-89-8) Danger of cutaneous absorption

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

Trichloroethylene (CAS 79-01-6) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Epichlorohydrin (CAS 106-89-8) Can be absorbed through the skin.

**Appropriate engineering controls**

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.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Impervious gloves. Confirm with reputable supplier first.

**Other**

Wear appropriate chemical resistant clothing. As required by employer code.

**Respiratory protection**

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).

**Thermal hazards**

Not applicable.

**General hygiene considerations**

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

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**9. Physical and chemical properties**

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<b>Appearance</b>	Clear
<b>Physical state</b>	Gas.
<b>Form</b>	Spray
<b>Color</b>	Colorless
<b>Odor</b>	Solvent
<b>Odor 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>	Not available.
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<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>Vapor pressure</b>	5860.5436-7239.4951 hPa @ 20°C
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

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**10. Stability and reactivity**

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<b>Reactivity</b>	This product may react with oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong oxidizing agents. Soft metals.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Phosgene.

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**11. Toxicological information**

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<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Inhalation</b>	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. 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 irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Rash. Skin irritation. May cause redness and pain. Dermatitis. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Information on toxicological effects****Acute toxicity**

Narcotic effects. May cause an allergic skin reaction.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Carbon dioxide (CAS 124-38-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Epichlorohydrin (CAS 106-89-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	515 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Rat	4114 mg/m <sup>3</sup> , ECHA
<i>Oral</i>		
LD50	Rat	175 - 282 mg/kg, ECHA
Oils, orange, sweet (CAS 8008-57-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, ECHA
Trichloroethylene (CAS 79-01-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	20 ml/kg, HSDB
<i>Inhalation</i>		
LC50	Dog; Mouse; Rabbit; Rat	12000 ppm, 4 Hours, ECHA 8450 ppm, 4 Hours, ECHA 12500 ppm, 4 Hours, ECHA
<i>Oral</i>		
LD50	Dog; Mouse; Rat	5400 - 7200 mg/kg, ECHA 2900 mg/kg, ECHA
<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 irritation.	
<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.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	

<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Mutagenicity</b>	Suspected of causing genetic defects.
<b>Carcinogenicity</b>	May cause cancer.
<b>ACGIH Carcinogens</b>	
Epichlorohydrin (CAS 106-89-8)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Trichloroethylene (CAS 79-01-6)	A2 Suspected human carcinogen.
<b>California Proposition 65 - CRT: Listed date/Carcinogenic substance</b>	
beta-Myrcene (CAS 123-35-3)	
Epichlorohydrin (CAS 106-89-8)	
Trichloroethylene (CAS 79-01-6)	
<b>Canada - Manitoba OELs: carcinogenicity</b>	
Epichlorohydrin (CAS 106-89-8)	Confirmed animal carcinogen with unknown relevance to humans.
Trichloroethylene (CAS 79-01-6)	Suspected human carcinogen.
<b>Canada - Quebec OELs: Carcinogen category</b>	
Epichlorohydrin (CAS 106-89-8)	Suspected carcinogenic effect in humans.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Epichlorohydrin (CAS 106-89-8)	Volume 11, Supplement 7, Volume 71 - 2A Probably carcinogenic to humans.
Trichloroethylene (CAS 79-01-6)	Volume 63, Volume 106 - 1 Carcinogenic to humans.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>	
Not listed.	
<b>US NTP Report on Carcinogens: Anticipated carcinogen</b>	
Epichlorohydrin (CAS 106-89-8)	Reasonably Anticipated to be a Human Carcinogen.
<b>US NTP Report on Carcinogens: Known carcinogen</b>	
Trichloroethylene (CAS 79-01-6)	Known To Be Human Carcinogen.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Specific target organ toxicity - single exposure</b>	Narcotic effects.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Chronic exposure to trichloroethylene may cause liver, kidney, central nervous system and peripheral nervous system effects.

## 12. Ecological information

<b>Ecotoxicity</b>	Expected to be harmful to aquatic organisms. See below		
<b>Ecotoxicological data</b>			
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Epichlorohydrin (CAS 106-89-8)			
Crustacea	EC50	Daphnia	24 mg/L, 48 Hours
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	9.1 - 12.3 mg/L, 96 hours
Trichloroethylene (CAS 79-01-6)			
Crustacea	EC50	Daphnia	2.2 mg/L, 48 Hours
<b>Aquatic</b>			
Fish	LC50	Flagfish ( <i>Jordanella floridae</i> )	3.1 mg/L, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	No data available.		
<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.		



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### 13. Disposal considerations

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<b>Disposal instructions</b>	Consult authorities before disposal. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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>	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).
<b>Contaminated packaging</b>	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.

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### 14. Transport information

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**Transport of Dangerous Goods (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.

**U.S. Department of Transportation (DOT)**

**Basic shipping requirements:**

**UN number** UN1950  
**Proper shipping name** Aerosols, flammable, (each not exceeding 1 L capacity)  
**Hazard class** Limited Quantity - US

**Transportation of Dangerous Goods (TDG - Canada)**

**Basic shipping requirements:**

**UN number** UN1950  
**Proper shipping name** AEROSOLS, flammable  
**Hazard class** Limited Quantity - Canada

**IATA/ICAO (Air)**

**Basic shipping requirements:**

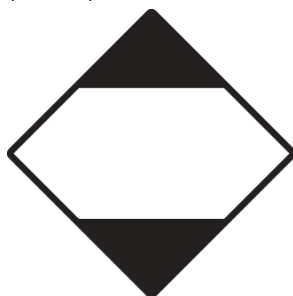
**UN number** UN1950  
**Proper shipping name** Aerosols, flammable  
**Hazard class** Limited Quantity - IATA

**IMDG (Marine Transport)**

**Basic shipping requirements:**

**UN number** UN1950  
**Proper shipping name** AEROSOLS  
**Hazard class** Limited Quantity - US

**DOT; IMDG; TDG**



**IATA**



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### 15. Regulatory information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR.

**Canada CEPA Schedule I: Listed substance**

Carbon dioxide (CAS 124-38-9)	Listed.
Epichlorohydrin (CAS 106-89-8)	Listed.
Trichloroethylene (CAS 79-01-6)	Listed.

**Canada DSL Challenge Substances: Listed substance**

Epichlorohydrin (CAS 106-89-8)	Listed.
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**Canada SNAc Reporting Requirements: Listed substance/Publication date**

Epichlorohydrin (CAS 106-89-8)	07/18/2012 Listed.
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**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Carbon dioxide (CAS 124-38-9)

**Precursor Control Regulations**

Not regulated.

**WHMIS 2015 Exemptions** Not applicable

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All chemicals used are on the TSCA inventory.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Trichloroethylene (CAS 79-01-6)	0.1 % One-Time Export Notification only.
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**CERCLA Hazardous Substance List (40 CFR 302.4)**

Epichlorohydrin (CAS 106-89-8)	Listed.
Trichloroethylene (CAS 79-01-6)	Listed.

**SARA 304 Emergency release notification**

Epichlorohydrin (CAS 106-89-8)	100 LBS
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**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance** No

**Classified hazard categories**

- Gas under pressure
- Skin corrosion or irritation
- Serious eye damage or eye irritation
- Respiratory or skin sensitization
- Germ cell mutagenicity
- Carcinogenicity
- Reproductive toxicity
- Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Epichlorohydrin	106-89-8	0.1-1*
Trichloroethylene	79-01-6	80-100*

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Epichlorohydrin (CAS 106-89-8)
Trichloroethylene (CAS 79-01-6)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Epichlorohydrin (CAS 106-89-8)
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**US state regulations****US - California Hazardous Substances (Director's): Listed substance**

Carbon dioxide (CAS 124-38-9)	Listed.
Epichlorohydrin (CAS 106-89-8)	Listed.
Trichloroethylene (CAS 79-01-6)	Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Epichlorohydrin (CAS 106-89-8)
Trichloroethylene (CAS 79-01-6)

**US - Louisiana Spill Reporting: Listed substance**

Epichlorohydrin (CAS 106-89-8)	Listed.
Trichloroethylene (CAS 79-01-6)	Listed.

**US - Michigan Critical Materials Register: Parameter number**

Trichloroethylene (CAS 79-01-6)
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**US - Minnesota Haz Subs: Listed substance**

Carbon dioxide (CAS 124-38-9) Listed.  
Epichlorohydrin (CAS 106-89-8) Listed.  
Trichloroethylene (CAS 79-01-6) Listed.

**US - North Carolina Toxic Air Pollutants: Listed substance**

Epichlorohydrin (CAS 106-89-8)  
Trichloroethylene (CAS 79-01-6)

**US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant**

Carbon dioxide (CAS 124-38-9)

**US - Texas Effects Screening Levels: Listed substance**

Carbon dioxide (CAS 124-38-9) Listed.  
Epichlorohydrin (CAS 106-89-8) Listed.  
Oils, orange, sweet (CAS 8008-57-9) Listed.  
Trichloroethylene (CAS 79-01-6) Listed.

**US. Massachusetts RTK - Substance List**

Carbon dioxide (CAS 124-38-9)  
Epichlorohydrin (CAS 106-89-8)  
Trichloroethylene (CAS 79-01-6)

**US. New Jersey Worker and Community Right-to-Know Act**

Carbon dioxide (CAS 124-38-9)  
Epichlorohydrin (CAS 106-89-8)  
Trichloroethylene (CAS 79-01-6)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Carbon dioxide (CAS 124-38-9)  
Epichlorohydrin (CAS 106-89-8)  
Trichloroethylene (CAS 79-01-6)

**US. Rhode Island RTK**

Carbon dioxide (CAS 124-38-9)  
Epichlorohydrin (CAS 106-89-8)  
Trichloroethylene (CAS 79-01-6)

**US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including Trichloroethylene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

THIS PRODUCT IS NOT AVAILABLE IN THE STATE OF CALIFORNIA.

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

beta-Myrcene (CAS 123-35-3) Listed: March 27, 2015  
Epichlorohydrin (CAS 106-89-8) Listed: October 1, 1987  
Trichloroethylene (CAS 79-01-6) Listed: April 1, 1988

**California Proposition 65 - CRT: Listed date/Developmental toxin**

Trichloroethylene (CAS 79-01-6) Listed: Jan 31, 2014

**California Proposition 65 - CRT: Listed date/Male reproductive toxin**

Epichlorohydrin (CAS 106-89-8) Listed: September 1, 1996  
Trichloroethylene (CAS 79-01-6) Listed: Jan 31, 2014

**Inventory status**

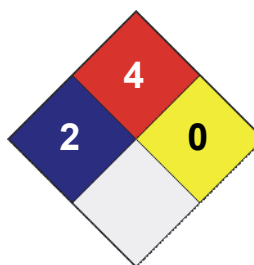
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

**16. Other information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 2
FLAMMABILITY	4
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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**Version #**

03

**Effective date**

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**Prepared by**

Nu-Calgon Technical Service Phone: (314) 469-7000

**Further information**

Not available.

**Other information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.