

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	Degreasing Solvent EF (Part #4162-07)
Other means of identification	Not available
Recommended use	Degreaser
Recommended restrictions	None known.
Manufacturer information	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier	See above.

2. Hazards Identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
	Carcinogenicity	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		



Signal word	Danger
Hazard statement	Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May cause cancer. Harmful if inhaled.

Precautionary statement

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Response In case of fire: Use appropriate media to extinguish.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.
 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 IF exposed or concerned: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

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

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known

Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), light hydrotreated		64742-47-8	40-70
Ethene, tetrachloro-		127-18-4	10-30
o-chlorotoluene		95-49-8	10-30
Benzene, 1-chloro-4(trifluoromethyl)-		98-56-6	5-10

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.

4. First Aid Measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. 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.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off all contaminated clothing immediately. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Keep out of reach of children. Wear rubber gloves and safety glasses with side shields.

5. Fire Fighting Measures

Suitable extinguishing media	Carbon dioxide (CO2). Dry chemical. Water Fog. Foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Hydrogen chloride. Hydrogen fluoride.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Avoid inhalation of vapors. 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.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. 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 SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wear personal protective equipment. When using do not eat or drink. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials. 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 in an area equipped with sprinklers. Keep out of reach of children. Do not store at temperatures above 120°F (49°C).

8. Exposure Controls/Personal Protection

Occupational exposure limits

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

Components	Type	Value	Form
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m ³	Vapor.
Ethene, tetrachloro- (CAS 127-18-4)	STEL	678 mg/m ³	
		100 ppm	
	TWA	170 mg/m ³	
		25 ppm	
o-chlorotoluene (CAS 95-49-8)	TWA	259 mg/m ³	
		50 ppm	

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

Components	Type	Value	Form
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m ³	Non-aerosol.
Ethene, tetrachloro- (CAS 127-18-4)	STEL	100 ppm	

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

Components	Type	Value	Form
	TWA	25 ppm	
o-chlorotoluene (CAS 95-49-8)	TWA	50 ppm	

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

Components	Type	Value
Ethene, tetrachloro- (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
o-chlorotoluene (CAS 95-49-8)	TWA	50 ppm

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

Components	Type	Value
Ethene, tetrachloro- (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
o-chlorotoluene (CAS 95-49-8)	STEL	75 ppm
	TWA	50 ppm

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

Components	Type	Value
Ethene, tetrachloro- (CAS 127-18-4)	STEL	685 mg/m3
		100 ppm
	TWA	170 mg/m3
		25 ppm
o-chlorotoluene (CAS 95-49-8)	TWA	259 mg/m3
		50 ppm

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

Components	Type	Value
Ethene, tetrachloro- (CAS 127-18-4)	Ceiling	200 ppm
	TWA	100 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethene, tetrachloro- (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
o-chlorotoluene (CAS 95-49-8)	TWA	50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	100 mg/m3
o-chlorotoluene (CAS 95-49-8)	STEL	375 mg/m3
		75 ppm
	TWA	250 mg/m3
		50 ppm

Biological limit values

ACGIH Biological Exposure Indices		Determinant	Specimen	Sampling Time
Components	Value			
Ethene, tetrachloro- (CAS 127-18-4)	0.5 mg/L	Tetrachloroethylene	Blood	*

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
	3 ppm	Tetrachloroethylene	End-exhaled air	*

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

Exposure guidelines

Canada - Alberta OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

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

Safety goggles or glasses.

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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and Chemical Properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid
Color	Colorless
Odor	typical
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	282 - 349 °F (138.89 - 176.11 °C)
Pour point	Not available.
Specific gravity	0.917 g/cm ³
Partition coefficient (n-octanol/water)	Not available.
Flash point	120.0 °F (48.9 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	> 0.8
Explosive limit - upper (%)	< 5.7
Vapor pressure	Not available.
Vapor density	Not available.

Relative density	Not available.
Solubility(ies)	Negligible
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	May include and are not limited to: Hydrogen chloride. Hydrogen fluoride. Oxides of carbon.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	May be fatal if swallowed and enters airways. Harmful if inhaled. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled. Narcotic effects. May cause an allergic skin reaction.

Components	Species	Test Results
Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Mouse	20000 mg/m ³ /4H
	Rat	33 mg/l/4h
<i>Oral</i>		
LD50	Mouse	11500 mg/kg
	Rat	13000 mg/kg
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.8 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Ethene, tetrachloro- (CAS 127-18-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 3835 mg/kg
<i>Inhalation</i>		
LC50	Mouse	5200 ppm, 4 Hours

Components	Species	Test Results
		2978 ppm, 6 Hours
	Rat	17100 mg/l/4h
		5000 ppm, 8 Hours
		4100 ppm, 6 Hours
<i>Oral</i> LD50	Mouse	6000 mg/kg
	Rat	2600 mg/kg
o-chlorotoluene (CAS 95-49-8)		
Acute		
<i>Dermal</i> LD50	Rabbit	> 7940 mg/kg
	Rat	> 1083 mg/kg
<i>Inhalation</i> LC50	Rat	37517 mg/m3, 4 hours
<i>Oral</i> LD50	Rat	> 1600 mg/kg
		5700 mg/kg
		3227 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Canada - Alberta OELs: Irritant		
o-chlorotoluene (CAS 95-49-8)	Irritant	
Respiratory sensitization	Not available.	
Skin sensitization	May cause an allergic skin reaction. Prolonged or repeated exposure can cause drying, defatting and dermatitis.	
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.	
Carcinogenicity	May cause cancer.	
ACGIH Carcinogens		
Ethene, tetrachloro- (CAS 127-18-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Manitoba OELs: carcinogenicity		
TETRACHLOROETHYLENE (CAS 127-18-4)	Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Quebec OELs: Carcinogen category		
Ethene, tetrachloro- (CAS 127-18-4)	Detected carcinogenic effect in animals.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Ethene, tetrachloro- (CAS 127-18-4)	Volume 63, Volume 106 - 2A Probably carcinogenic to humans.	
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance		
Ethene, tetrachloro- (CAS 127-18-4)		
US NTP Report on Carcinogens: Anticipated carcinogen		
Ethene, tetrachloro- (CAS 127-18-4)	Reasonably Anticipated to be a Human Carcinogen.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
	Not listed.	
Reproductive toxicity	Non-hazardous by WHMIS/OSHA criteria.	

Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Specific target organ toxicity - single exposure	Narcotic effects.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological Information

Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test Results
Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)			
Crustacea	EC50	Daphnia	3.68 mg/L, 48 Hours
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/L, 96 hours
Ethene, tetrachloro- (CAS 127-18-4)			
Crustacea	EC50	Daphnia	7.55 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	6.1 - 9 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/L, 96 hours
o-chlorotoluene (CAS 95-49-8)			
Aquatic			
Fish	LC50	Bleak (Alburnus alburnus)	6.7 - 9.1 mg/L, 96 hours
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Mobility in general	Not available.		
Other adverse effects	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

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.
U.S. Department of Transportation (DOT)	
Basic shipping requirements:	
UN number	UN1992
Proper shipping name	Flammable liquids, toxic, n.o.s.
Technical name	Distillates (petroleum), light hydrotreated
Technical name	Ethene, tetrachloro-

Hazard class	Limited Quantity - US
Packing group	III
Special provisions	B1, IB3, T7, TP1, TP28
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1992
Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Technical name	Distillates (petroleum), light hydrotreated
Technical name	Ethene, tetrachloro-
Hazard class	Limited Quantity - Canada
Packing group	III
Special provisions	16

IATA/ICAO (Air)

Basic shipping requirements:

UN number	UN1992
Proper shipping name	Flammable liquid, toxic, n.o.s.
Technical name	Distillates (petroleum), light hydrotreated
Technical name	Ethene, tetrachloro-
Hazard class	Limited Quantity - IATA
Packing group	III
CARGO AIRCRAFT ONLY	

IMDG (Marine Transport)

Basic shipping requirements:

UN number	UN1992
Proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
Technical name	Distillates (petroleum), light hydrotreated
Technical name	Ethene, tetrachloro-
Hazard class	Limited Quantity - IMDG
Packing group	III

DOT; IMDG; TDG



IATA



15. Regulatory Information

Canadian federal regulations 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.

Canada CEPA Schedule I: Listed substance

Ethene, tetrachloro- (CAS 127-18-4)	Listed.
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Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	1 TONNES
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Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

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

Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethene, tetrachloro- (CAS 127-18-4) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance No**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Ethene, tetrachloro-	127-18-4	10-30

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

Ethene, tetrachloro- (CAS 127-18-4)

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

Not regulated.

US state regulations**US - California Hazardous Substances (Director's): Listed substance**

Ethene, tetrachloro- (CAS 127-18-4) Listed.

o-chlorotoluene (CAS 95-49-8) Listed.

US - Illinois Chemical Safety Act: Listed substance

Ethene, tetrachloro- (CAS 127-18-4)

US - Louisiana Spill Reporting: Listed substance

Ethene, tetrachloro- (CAS 127-18-4) Listed.

US - Michigan Critical Materials Register: Parameter number

Ethene, tetrachloro- (CAS 127-18-4) TETRACHLOROETHYLENE

US - Minnesota Haz Subs: Listed substance

Ethene, tetrachloro- (CAS 127-18-4) Listed.

o-chlorotoluene (CAS 95-49-8) Listed.

US - New Jersey RTK - Substances: Listed substance

Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6)

Ethene, tetrachloro- (CAS 127-18-4)

o-chlorotoluene (CAS 95-49-8)

US - North Carolina Toxic Air Pollutants: Listed substance

Ethene, tetrachloro- (CAS 127-18-4)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Ethene, tetrachloro- (CAS 127-18-4)

US - Texas Effects Screening Levels: Listed substance

Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6) Listed.

Distillates (petroleum), light hydrotreated (CAS 64742-47-8) Listed.

Ethene, tetrachloro- (CAS 127-18-4) Listed.

o-chlorotoluene (CAS 95-49-8) Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Ethene, tetrachloro- (CAS 127-18-4)

US. Massachusetts RTK - Substance List

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

Ethene, tetrachloro- (CAS 127-18-4)
o-chlorotoluene (CAS 95-49-8)

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

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Ethene, tetrachloro- (CAS 127-18-4)

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

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Ethene, tetrachloro- (CAS 127-18-4)
o-chlorotoluene (CAS 95-49-8)

US. Rhode Island RTK

Ethene, tetrachloro- (CAS 127-18-4)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

Ethene, tetrachloro- (CAS 127-18-4) Listed: April 1, 1988

Inventory status

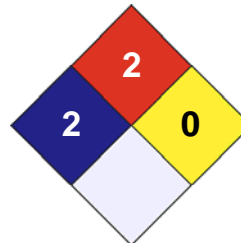
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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		2
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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Other information

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