

## 1. Identification

Product name PERCHLOROETHYLENE  
 Use DRY CLEANING SOLVENT  
 Supplier Groulx Robertson-Venus  
 A division of GTR Chemical Solutions Inc.  
 190 Oneida drive, Pointe-Claire  
 Quebec, Canada H9R 1A8  
 Emergency phone number: CANUTEC (613) 996-6666

Code 10PE006F



## 2. Hazard identification

Product classification Carcinogenicity - Category 1B  
 Skin corrosion / irritation - Category 2  
 Serious eye damage / Eye irritation - Category 2A  
 Specific target organ toxicity - Repeated exposure - Category 2  
 Signal word **DANGER**  
 Hazard statement H315 - Causes skin irritation.  
 H335 - May cause respiratory irritation.  
 H350 - May cause cancer.

Pictogram



Precautionary statement P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P261 - Avoid breathing dust / fumes / gas / mist / vapours / spray.  
 P264 - Wash hands and face thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves / protective clothing / eye protection / face protection.  
 P308+P313 - If exposed or concerned: Call a POISON CENTER or doctor/physician.  
 P302+P352 - **IF ON SKIN:** Wash with plenty of soap and water.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P304+312 - **IF INHALED:** Call a POISON CENTER or doctor/physician if you feel unwell.  
 P312 - Call a POISON CENTER or doctor if you feel unwell.  
 P403+P233 - Store in a well ventilated place. Keep container tightly closed.  
 P405 - Store locked up.  
 P501 - Dispose of contents / container according to all applicable regulations.

## 3. Composition / Information on ingredients

Ingredient name	Cas number	% (w/w)
Tetrachloroethylene	127-18-4	100

Exact percentages are being withheld as trade secret information

#### 4. First-aid measures

Eyes contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.
Skin contact	Wash with plenty of water and soap. If an irritation of the skin or a rash develops, seek medical attention. Remove contaminated garments and wash them before reusing them.
Inhalation	Bring person to aerated area. If the the victim has trouble breathing, seek medical assistance.
Ingestion	Do not induce vomiting. Rinse mouth. Drink a glass of water. if a feeling of discomfort or other symptoms develop, see a doctor.
Most important symptoms and effects	See section 11.
Indication of immediate medical attention and special treatment needed	In case of contact, proven or suspected, with the product, get a medical advice.

#### 5. Fire-fighting measures

Suitable extinguishing media	Spray water, carbon dioxide, foam, dry chemicals.
Unsuitable extinguishing media	Do not use a water jet.
Specific hazards arising from the chemical	No further relevant information available.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear protective equipment listed in section 8. Keep unnecessary personnel and unprotected persons away.
Methods and materials for containment and cleaning up.	Isolate area. Keep unnecessary personnel away. Ensure adequate ventilation. Stop the flow of material, if this is without risk. Absorb with inert material such as vermiculite, sand or soil. Put in adequate container. Wash contaminated area.

#### 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see section 8). Handle to avoid splashing.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place, away from heat source and direct sunlight. Keep container tightly closed.

#### 8. Exposure controls / Personal protection

##### Occupational exposure limits (by ingredients)

Ingredient name	TWAEV	STEV
Tetrachloroethylene	25 ppm	100 ppm

Source of data : RSST

P = ceiling value that should not be exceeded for any amount of time.

Appropriate engineering controls	Use only with ventilation adequate to keep air concentration below STEV if use generates vapor or mists. If STEV is exceeded, wear NIOSH approved respirator.
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##### Individual protection measures

Eyes & face	Tightly sealed goggles.
Skin	Protective gloves.
Respiratory	If airborne exposures cannot be kept below permissible exposure limits, use a NIOSH approved respiratory protection.

Other Provide eye wash facility and safety shower near the places where the product is used.  
Normal work clothes (long-sleeved shirt, long pants and closed shoes) are recommended.  
Contact lenses should not be worn when handling this product.

## 9. Physical and chemical properties

Physical state	Liquid	Evaporation rate	Not available	Relative density	1.63
Colour	Colorless	Flammability	Not flammable	Solubility	Not soluble in water
Odour	Characteristic odor	Upper flammability limits	Not available	Partition coefficient - n-octanol/water	Not available
Odour threshold	Not available	Lower flammability limits	Not available	Auto-ignition temperature	Not available
pH	6.8	Upper explosive limits	Not available	Decomposition temperature	Not available
Melting point	-22°C	Lower explosive limits	Not available	Viscosity	Not available
Initial boiling point and boiling range	121°C	Vapour pressure	Not available		
Flash point	Not applicable	Vapour density	Not available		

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	Avoid excessive heat.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	None known

## 11. Toxicological information

### Potential Health Effects

Eyes contact	Severe irritation of the eyes.
Skin contact	Prolonged and widespread contact with the product may cause irritation.
Inhalation	Exposition to high concentrations may cause irritation of the upper respiratory tract.
Ingestion	Possibly harmful.
Chronic Exposure	Prolonged or chronic exposure to this product may lead to damage to organs. Carcinogenicity : IARC 2A, the agent (mixture) is probably carcinogenic to humans.

### Acute toxicity (per ingredient)

Ingredient	Acute toxicity
Tetrachloroethylene	LD 50 Oral : 3005 mg/kg, Rat LD 50 Dermal : 5000 mg/kg, Mouse LC 50 Inhalation : 4000 ppm, Rat, 4 h

## 12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.

## 13. Disposal considerations

Disposal methods	Dispose of contents/container in accordance with local / regional / national / international regulations.
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## 14. Transport information

### TDG Classification

UN Number	Shipping name	Class	Packing group
UN1897	TETRACHLOROETHYLENE	6.1	III

## 15. Regulatory information

WHMIS classification	Carcinogenicity - Category 1B Skin corrosion / irritation - Category 2 Serious eye damage / Eye irritation - Category 2A Specific target organ toxicity - Repeated exposure - Category 2
Other applicable regulations	No further data available.

## 16. Other information

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### Notice to reader

The information provided in this Safety Data Sheet is accurate to the best of our knowledge, and information available at the date of publication. The information is only designed as a guidance for safe handling, use, transport, storage and disposal.

Use of this product should be performed with caution as there are risks and hazards for people and goods, which are detailed but are not limited in this MSDS. To reduce the risks and dangers with this product is the responsibility of the user to comply with instructions and all instructions provided in the MSDS of this product. The manufacturer, distributors and suppliers of this product are exempt from any liability for any loss or damages of any kind whatsoever resulting from the use of this product that does not comply with the instructions or to all instructions provided in this MSDS or resulting from careless use of this product.