SAFETY DATA SHEET

Product code: C1981
Product Name: CARBON TETRACHLORIDE, REAGENT

Other means of identification
Synonyms:
- Benziniform
- Carbona
- Carbon TET
- Chlorid uhlicity (Czech)
- Czterochlorek weglia (Polish)
- Halon 1040
- Methane tetrachloride
- Methane, tetrachloro-
- Necatorina
- Perchloromethane
- R 10
- R 10 (Refrigerant)
- Tetrafinol
- Tetrachloorkoolstof (Dutch)
- Tetrachloormetaan
- Tetrachlorkohlenstoff, tetra (German)
- Tetrachloromethan (German)
- Tetrachlorocarbon
- Tetrachloromethane (OSHA)
- Tetrachlorure de carbone (French)
- Tetrachlorometano (Italian)
- Tetrachloruro di carbonio (Italian)
- Tetraform
- Tetrasol
- Univerm
- Vermoesticid

CAS #: 56-23-5
RTECS #: FG4900000
CI#: Not available

Recommended use of the chemical and restrictions on use

Cleaning agent for machinery and electrical equipment..

Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Revision Date: 7/9/15
Revision Number: G1
2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- Suspected of causing cancer
- May cause respiratory irritation. May cause drowsiness or dizziness
- Causes damage to organs through prolonged or repeated exposure
- Harms public health and the environment by destroying ozone in the upper atmosphere

Hazard symbols

Hazard not otherwise classified (HNOC)
- Not Applicable

Other hazards
- May be harmful if swallowed

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see .? 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 advice/attention.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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<tr>
<td>Carbon Tetrachloride</td>
<td>56-23-5</td>
<td>100</td>
<td>*</td>
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4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Causes skin irritation. Irritating to respiratory system. Central nervous system effects. May cause drowsiness or dizziness. May cause abdominal pain, nausea, vomiting, diarrhea. May cause metabolic acidosis. It may affect the kidneys. If it is absorbed through the skin, it may cause loss of appetite and weight loss, and affect the liver.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry powder. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Product code: C1981 Product name: CARBON TETRACHLORIDE, REAGENT
Hazardous Combustion Products:
No information available.

Specific hazards:
Carbon Tetrachloride can form impact-sensitive mixtures with: aluminum, barium, beryllium, potassium, potassium-sodium alloy, sodium, zinc. Carbon Tetrachloride can form explosive mixtures with: Benzyol peroxide +ethylene, calcium hypochlorite, calcium disilicide, chlorine trifluoride, decaborane, dinitrogen tetraoxide; disilane, lithium, magnesium powder, uranium, Triethylaluminum trichloride, aluminum powder, fluorine gas, boranes, and ethylene.

Special Protective Actions for Firefighters

Specific Methods:
No information available.

Special Protective Equipment for Firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:
Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas. Should not be released into the environment. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal. Do not get water inside the containers.

Methods and material for containment and cleaning up

Methods for containment
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Cover with plastic sheet to prevent spreading. Use water spray to reduce vapors..

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Use only in area provided with appropriate exhaust ventilation. Remove all sources of ignition. Keep away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition.

Safe Handling Advice
Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke.

Conditions for safe storage, including any incompatibilities
Technical Measures/Storage Conditions:
Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
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<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<td>12.6 mg/m³ STEL</td>
<td>10 ppm STEL</td>
<td>None</td>
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<td>25 ppm Ceiling</td>
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Canada

<table>
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<tr>
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<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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<td>= 31 mg/m³ TWA</td>
<td>= 2 ppm TWA</td>
<td>2 ppm TWA</td>
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<td>= 5 ppm TWA</td>
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<td>31 mg/m³ TWAEV</td>
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<td>63 mg/m³ STEV</td>
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Australia and Mexico

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<th>Mexico</th>
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<td>= 5 ppm TWA</td>
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Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields

Skin and body protection: Gloves. Long sleeved clothing. Chemical resistant apron.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Self-contained breathing apparatus.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES
### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<tbody>
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<td>Odor: Aromatic, Sweetish, Ethereal, Chloroform.</td>
<td>Taste No information available</td>
<td>Molecular/Formula weight: 153.82 g/mole</td>
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<tr>
<td>Formula: CCl4</td>
<td>Flammability: No information available</td>
<td>Flash point (°C): No data available</td>
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<tr>
<td>Flashpoint (°C/°F): No information available.</td>
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<td>Lower Explosion Limit (%): No information available</td>
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<td>Melting point/range(°C/°F): -23°C (-9.4°F)</td>
<td>Boiling point/range(°C/°F): 76.8°C (170.2°F)</td>
<td>Decomposition temperature(°C/°F): No information available</td>
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<td>Vapor density: 5.32</td>
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<td>Partition coefficient (n-octanol/water): 2.8</td>
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<td>Viscosity: No information available</td>
<td>Miscibility: No information available</td>
<td>Solubility: Soluble in diethyl ether Very slightly soluble in cold water Miscible in chloroform, carbon disulfide, petroleum ether, oils Solubility in water: 1160 mg/L at 25°C; 800mg/L at 20°C</td>
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<tr>
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<td></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

#### Reactivity
Incompatible with aluminum, aluminum powder, barium, beryllium, potassium, potassium-sodium alloy, sodium, zinc, benzyol peroxide +ethylene, calcium hypochlorite, calcium disilicide, chlorine trifluoride, fluorine gas, boranes, ethylene, methanol, dimethyl formamide, 1,2,3,4,5,6-hexachlorocyclohexane, dimethylacetamide, 1,11-diamino-3,6,9-triazundecane, aluminum trichloride, dibenzoyl peroxide, potassium-tetra-butoxide, zirconium, allyl alcohol, aluminum triethyl tertraethylpentamine, tetrasiline, calcium perchlorate. Methanol and carbon tetrachloride mixtures (9:1) react exothermically with alumium, magnesium, and zinc. A potentially dangerous reaction forms between carbon tetrachloride and dimethyl formamide; 1,2,3,4,5,6-hexachlorocyclohexane; or dimethylacetamide in the presence of iron. A vigorous eruption can occur one hour after mixture of carbon tetrachloride and 1,11-diamino-3,6,9-triazundecane.

#### Chemical stability
- **Stability:** Stable under recommended storage conditions
- **Possibility of Hazardous Reactions:** Hazardous polymerization does not occur
- **Conditions to avoid:** Stable at normal conditions
- **Hazardous decomposition products:** No information available

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**Product code:** C1981  **Product name:** CARBON TETRACHLORIDE, REAGENT
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Inhalation. Ingestion. Eyes. Skin.

Acute Toxicity

Component Information

Carbon Tetrachloride - 56-23-5
- LD50/oral/rat = 2350 mg/kg Oral LD50 Rat
- LD50/oral/mouse = No information available
- LD50/dermal/rat = 5070 mg/kg Dermal LD50 Rat
- LD50/dermal/rabbit = >20000 mg/kg Dermal LD50 Rabbit
- LC50/inhalation/rat = 8000 ppm Inhalation LC50 Rat 4 h
- LC50/inhalation/mouse = No information available
- Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 2350mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = >20000mg/kg

LD50/dermal/rat
VALUE -Acute Tox Dermal = 5070mg/kg

LC50/inhalation/rat
VALUE-Vapor = 8000mg/l (4-hr)
VALUE-Gas = 8000ppm (4-hr)
VALUE-Dust/Mist = No information available

LC50/inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. Can cause redness and pain.

Eye Contact: Causes serious eye irritation. May cause conjunctivitis.

Product code: C1981

Product name: CARBON TETRACHLORIDE, REAGENT
Inhalation

Ingestion
May cause abdominal pain, nausea, vomiting, diarrhea. May affect behavior/central nervous system (ataxia). May affect behavior/central nervous system (tremors). May affect behavior/central nervous system (coma). May affect eyes (pupillary constriction). May cause difficulty breathing. May cause cyanosis. May affect the kidneys. May affect liver. May affect blood (changes in serum composition).

Aspiration hazard
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
Inhalation: Repeated or prolonged inhalation can cause nausea, diarrhea, lack of appetite, flatulence, vomiting, stomachache, hearing loss, damage to optic nerve (visual defects). It may affect the liver (jaundice, abnormal liver function tests, cirrhosis, liver damage test, cirrhosis, liver damage), kidneys (kidney damage), blood/bone marrow (asplastic anemia, leukocytosis), spleen, adrenal glands, thyroid (thyroid damage), immune system (invoking an immune response), central nervous system. Prolonged or repeated ingestion may affect the kidneys and liver, spleen, behavior/central nervous system (muscle weakness). Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin.

Sensitization:
No information available

Mutagenic Effects:
May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects:
May cause cancer. Possibly carcinogenic to humans.

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
</table>

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity
No data is available

Reproductive Effects:
May cause adverse developmental effects based on animal data
Developmental Effects:
May cause adverse developmental effects based on animal data
Teratogenic Effects:
No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - single exposure. Respiratory system. central nervous system.

Product code: C1981
Product name: CARBON TETRACHLORIDE, REAGENT
STOT - repeated exposure  
Target Organs:  

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Carbon Tetrachloride - 56-23-5
Freshwater Algae Data: 830 mg/L EC50 Tetrahymena pyriformis 24 h
Freshwater Fish Species Data: 36.3-47.3 mg/L LC50 Pimephales promelas 96 h flow-through 1
23-33 mg/L LC50 Lepomis macrochirus 96 h static 1
9.68-11.3 mg/L LC50 Pimephales promelas 96 h static 1
Water Flea Data: 29 mg/L EC50 Daphnia magna 48 h
28 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
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<td>None</td>
<td>U211</td>
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14. TRANSPORT INFORMATION

DOT

- UN-No: UN1846
- Proper Shipping Name: Carbon tetrachloride
- Hazard Class: 6.1
- Subsidiary Risk: No information available
- Packing Group: II
- ERG No: 151
- Marine Pollutant: No data available
- DOT RQ (lbs): No information available
- Symbol(s): P, R2

TDG (Canada)

- UN-No: UN1846

Product code: C1981  
Product name: CARBON TETRACHLORIDE, REAGENT
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<th><strong>14. TRANSPORT INFORMATION</strong></th>
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**ADR**

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**IMO / IMDG**

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**Product code:** C1981  
**Product name:** CARBON TETRACHLORIDE, REAGENT
15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>Present</td>
<td>Present KE-04756</td>
<td>Present</td>
<td>Present (2)-38</td>
<td>Present</td>
<td>Present</td>
<td>Present 200-262-8</td>
</tr>
</tbody>
</table>

U.S. Regulations

Carbon Tetrachloride

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 0347
New Jersey (EHS) List: 0347 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Special hazardous substance
Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
Minnesotta - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
  = 10 lb RQ
  = 1 lb RQ
Louisiana Reportable Quantity List for Pollutants: Listed
California Directors List of Hazardous Substances: Present


Chemicals Known to the State of California to Cause Cancer:
WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>carcinogen</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>= 10 lb final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>0.1 % de minimis concentration</td>
</tr>
<tr>
<td></td>
<td>= 4.54 kg final RQ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
D1A Very toxic materials
D2A Very toxic materials
D2B Toxic materials

Product code: C1981
Product name: CARBON TETRACHLORIDE, REAGENT
Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>0.1 %</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>Present</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

**R-phrase(s)**

R40 - Limited evidence of a carcinogenic effect
R59 - Dangerous for the ozone layer.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S -phrase(s)**

S23 - Do not breathe gas/fumes/vapor/spray.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
S59 - Refer to manufacturer/supplier for information on recovery/recycling.
S 1/2 - Keep locked up and out of the reach of children.
S36/37 - Wear suitable protective clothing and gloves.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carc.Cat.3; R40</td>
<td>1%&lt;=C&lt;25%: T,N; R23/24/25-40-48/23-59</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R52-53</td>
<td>0.2%&lt;=C&lt;1%: Xn,N; R20/21/22-48/20-59</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N; R59</td>
<td>0.1%&lt;=C&lt;0.2%: N; R59</td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

T - Toxic
N - Dangerous for the environment.

Product code: C1981 Product name: CARBON TETRACHLORIDE, REAGENT
16. OTHER INFORMATION

Preparation Date: 7/9/15
Revision Date: 7/9/15
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet