Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI format to the GHS format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling (Label + (M)SDS) are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.

2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS:"

![Label in ANSI Format](image-url)
1 American National Standards Institute
2 Globally Harmonized System for Hazard Communication

Sincerely,

Regulatory Affairs
# MATERIAL SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="NFPA Rating" /></td>
<td><img src="image" alt="HMIS Rating" /></td>
<td><img src="image" alt="Personal Protective Equipment" /></td>
</tr>
</tbody>
</table>

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product code:</th>
<th>PS724</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)</td>
</tr>
<tr>
<td>Chemical Name:</td>
<td>Methane, dichloro-</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Aerothene MM, Chlorure de methylene (French), Dichloromethane, Freon 30, HCC 30, Khladon 30, Methane dichloride, Methylene bichloride, Methylene chloride, Methylene dichloride, Narkotil, Solaesthin, Soleana VDA, Solmethine</td>
</tr>
<tr>
<td>CAS #:</td>
<td>75-09-2</td>
</tr>
<tr>
<td>RTECS #:</td>
<td>PA8050000</td>
</tr>
<tr>
<td>Formula:</td>
<td>CH₂Cl₂</td>
</tr>
<tr>
<td>CI#:</td>
<td>Not available</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000</td>
</tr>
<tr>
<td>Order Online At:</td>
<td><a href="https://www.spectrumchemical.com">https://www.spectrumchemical.com</a></td>
</tr>
<tr>
<td>Emergency Telephone Number:</td>
<td>CHEMTREC: 1-800-424-9300</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Regina Wachenheim (East Coast)</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Martin LaBenz (West Coast)</td>
</tr>
</tbody>
</table>
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING!
Irritating to skin
Irritating to eyes
May be harmful if swallowed
May be harmful if absorbed through the skin

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Ingestion. Inhalation. Skin.

Acute Potential Health Effects:

Skin Contact:
Causes skin irritation. Moderate skin irritation. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects. May be harmful if absorbed through skin.

Eye Contact:
Causes eye irritation. Moderately irritating to the eyes. Causes conjunctival irritation. Causes conjunctivitis.

Inhalation:
Irritating to respiratory system. Causes conjunctival irritation. May cause nausea and vomiting. May cause central nervous system effects. May affect the nervous system. It may affect the brain. May affect respiration. May affect the liver. May affect the urinary system. May cause cardiovascular effects. It may affect the blood. It may affect the spleen.

Ingestion:
May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May affect the liver. It may affect the kidneys. May cause central nervous system effects. May affect the blood. May affect the cardiovascular system.

Chronic Potential Health Effects:

Component
Methylene Chloride
75-09-2 (100)

Carcinogen Status:
A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans by ACGIH
Group 2B - Possibly Carcinogenic to Humans by IARC
Reasonably Anticipated To Be A Human Carcinogen by NTP
OSHS Hazard Communication Carcinogens - present; Cancer suspect agent by OSHA

Target Organs:

Mutagenic Effects:
May affect genetic material
Animal experiments showed mutagenic effects
Mutagenic effects in mammalian somatic cells
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Product code: PS724

Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
**Teratogenic Effects:** May cause birth defects (teratogenic effects) based on animal test data. Showed teratogenic effects in animal experiments. High doses of methylene chloride given to pregnant rats and mice were shown by one study to increase the incidence of minor skeletal anomalies although other studies in rats found this agent not to be associated with an increase in congenital anomalies.


See Section 11 for additional Toxicological Information

**POTENTIAL ENVIRONMENTAL EFFECTS**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>75-09-2</td>
<td>100</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**General Advice:** Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**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 breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Toxic if swallowed. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

**Notes to Physician:** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**

<table>
<thead>
<tr>
<th>Flashpoint (°C/°F):</th>
<th>No information available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point Tested according to:</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Product code:** PS724 **Product name:** METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
**Lower Explosion Limit (%):** 12-13%

**Upper Explosion Limit (%):** 19-23%

**Autoignition Temperature (°C/°F):** 556-605 °C/1033-1121 °F

**Suitable Extinguishing Media:** Carbon dioxide (CO2), Dry chemical. Water spray mist or foam. Alcohol-resistant foam.

**Unsuitable Extinguishing Media:** No information available.

**Hazardous Combustion Products:** Hydrogen chloride gas; Carbon monoxide; Carbon dioxide; chlorinated hydrocarbons; trace amounts of phosgene and chlorine

**Specific hazards:** May be combustible at high temperatures. It may burn, but does not ignite readily. Container explosion may occur under fire conditions or when heated. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Air/vapor mixtures may explode when ignited. Fire may produce irritating and/or toxic gases.

**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

**Specific Methods:** Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**
Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.

**Environmental Precautions:**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up:**
Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

---

**7. HANDLING AND STORAGE**

**Handling**

**Technical Measures/Precautions:**
Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.
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. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Personal Protective Equipment

Eye protection: Goggles.

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

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

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.

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride - 75-09-2</td>
<td>25 ppm TWA</td>
<td>None</td>
<td>50 ppm TWA</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>125 ppm STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride - 75-09-2</td>
<td>50 ppm TWA</td>
<td>25 ppm TWA</td>
<td>50 ppm TWA</td>
<td>50 ppm TWAEV</td>
</tr>
<tr>
<td></td>
<td>174 mg/m³ TWA</td>
<td></td>
<td>174 mg/m³ TWAEV</td>
<td></td>
</tr>
</tbody>
</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride - 75-09-2</td>
<td>suspected carcinogen</td>
<td>100 ppm TWA</td>
</tr>
<tr>
<td></td>
<td>50 ppm TWA</td>
<td>330 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>174 mg/m³ TWA</td>
<td>500 ppm STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1740 mg/m³ STEL</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PEStISOLV(R)
## 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Appearance</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid.</td>
<td>No information available</td>
<td>Colorless.</td>
</tr>
</tbody>
</table>

- **Odor:** Sweet. Pleasant. Chloroform-like.
- **Taste** | No information available |
- **Molecular/Formula weight:** 84.93

<table>
<thead>
<tr>
<th>Flash point (°C):</th>
<th>Lower Explosion Limit (%):</th>
<th>Upper Explosion Limit (%):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>12-13%</td>
<td>19-23%</td>
</tr>
</tbody>
</table>

- **Autoignition Temperature (°C/°F):** 556-605 °C/1033-1121 °F
- **Melting point/range(°C/°F):** -96.7 to -95 °C/-142.06 to -139 °F
- **Flash point (°C):** No data available
- **Boiling point/range(°C/°F):** 39.8 °C/103.64 °F

- **Melting point/range(°C/°F):** -96.7 to -95 °C/-142.06 to -139 °F
- **Vapor pressure @ 20°C (kPa):** 46.66

- **Evaporation rate:** 27.5 (butyl acetate = 1)
- **Vapor density:** 2.93

- **Odor threshold (ppm):** 25-150
- **Partition coefficient (n-octanol/water):** 1.25
- **Partition coefficient (n-octanol/water):** 1.25

- **Partition coefficient (n-octanol/water):** 1.25
- **Partition coefficient (n-octanol/water):** 1.25

- **Miscibility:** Miscible with alcohol
  Miscible with Acetone
  Miscible with Carbon tetrachloride
  Miscible with Chloroform
  Miscible with Ether
  Miscible with Dimethylformamide

### Solubility:
- Slightly soluble in water
- Soluble in Ether
- Soluble in alcohol
- Soluble in Ethanol
- Soluble in Acetone

### 10. STABILITY AND REACTIVITY

- **Stability:** Stable at normal conditions
- **Conditions to avoid:** Heat. Ignition sources. Keep away from open flames, hot surfaces and sources of ignition. Incompatible materials.


- **Hazardous decomposition products:** Decomposition may occur after contact with open flame or hot surfaces. When heated to decomposition it emits highly toxic fumes. Carbon monoxide. Carbon dioxide. Hydrogen chloride gas. Chlorinated hydrocarbons. Phosgene. Chlorine.

- **Possibility of Hazardous Reactions:** Contact with potassium-tert-butoxide can cause ignition
  Prolonged heating of dichloromethane with water at 180 deg. C results in the formation of formic acid, methyl chloride, methanol, hydrochloric and some carbon monoxide

- **Polymerization:** Hazardous polymerisation does not occur

---

**Product code:** PS724
**Product name:** METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
Corrosivity: When dry, it is noncorrosive at normal atmospheric temperatures to common metals such as iron, copper, etc..

Special Remarks on Corrosivity: When it is in contact with water/moisture, especially at elevated temperatures, it will corrode iron, some stainless steels, copper, nickel and certain other metals

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Methylene Chloride - 75-09-2
- LD50/oral/rat = 1410-2524 mg/kg Oral LD50 Rat
- LD50/oral/mouse = 873-1987 mg/kg
- LD50/dermal/rat = >2000 mg/kg
- LD50/dermal/rabbit = No information available
- LC50/inhalation/rat = 76000 mg/m³ 4 h
- LC50/inhalation/mouse = No information available
- Other LD50 or LC50 information = 2000 mg/kg Oral LD50 Rabbit

Product Information

- LD50/dermal/rabbit = No information available
- LD50/oral/mouse = 873mg/kg
- LD50/oral/rat = >2000mg/kg
- LD50/oral/rat = 1410mg/kg

Local Effects

Skin irritation: Irritating to skin. Moderate skin irritation.


Inhalation: Irritating to respiratory system. Causes lacrimation. Causes conjunctivitis. May cause loss of appetite. May cause nausea, vomiting. Inhalation of high concentrations of vapor may cause anesthetic effects. May affect respiration (respiratory depression). May cause acute bronchitis. It may cause pulmonary edema. Symptoms may include coughing and wheezing. Can cause dyspnea (shortness of breath and difficulty breathing). May affect behavior/central nervous system (central nervous system depression - headaches, lightheadedness, dizziness, euphoria, irritability, fatigue, somnolence, ataxia, stupor, irritability, hallucinations, loss of memory, convulsions, unconsciousness. May affect the brain. May cause numbness and tingling of the extremities (hands and feet). May cause carboxyhemoglobinemia (a conversion of methylene chloride to carbon monoxide in the lungs, which yields increased concentrations of carboxyhemoglobin in the blood). May affect the kidneys. It may affect the liver. It may affect the adrenal gland.
Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May affect liver. May affect urinary system (kidneys). May cause tingling, pricking feeling, or numbness in the extremities. May affect behavior/central nervous system (convulsions). May affect behavior/central nervous system (somnolence, ataxia). May affect the blood (anemia). May affect the cardiovascular system (hypotension or hypertension, tachycardia). May cause loss of appetite.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity
Prolonged skin contact may cause skin irritation and/or dermatitis. Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated inhalation may affect metabolism (weight loss). Prolonged or repeated ingestion or inhalation may affect the peripheral nervous system (weakness, paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)). Prolonged or repeated ingestion may affect the liver. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the brain. Prolonged or repeated inhalation may cause carboxyhemoglobinemia (a conversion of methylene chloride to carbon monoxide in the lungs, which yields increased concentrations of carboxyhemoglobin in the blood). Prolonged or repeated inhalation may affect the cardiovascular system (cardiac dysrhythmias and cardiac depression, heart disease). Prolonged or repeated inhalation may cause central nervous system effects. Prolonged or repeated inhalation may affect the spleen.

Carcinogenic effects: Possibly carcinogenic to humans. Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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

Mutagenic Effects: May affect genetic material
Animal experiments showed mutagenic effects
Mutagenic effects in mammalian somatic cells
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Reproductive Effects: A possible association with spontaneous abortion has been noted in 2 human studies. However, there is limited evidence. There is concern that methylene chloride exposure may produce testicular toxicity, but animal and human data on this matter is very limited. In one group of case reports, 4 of 34 men with occupational exposure to methylene chloride were found to have sperm concentrations in the subfertile or infertile range. Four other men had testicular or prostatic pain. In a small uncontrolled study organized by the National Institute of Occupational Safety and Health, no signs of oligospermia were found in 20 workers exposed to methylene chloride.

Product code: PS724

Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data. Showed teratogenic effects in animal experiments. High doses of methylene chloride given to pregnant rats and mice were shown by one study to increase the incidence of minor skeletal anomalies although other studies in rats found this agent not to be associated with an increase in congenital anomalies.


12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and the ecotoxicology of similar products

Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

Methylene Chloride - 75-09-2
Freshwater Algae Data: 500 mg/L EC50 Pseudokirchneriella subcapitata 72 h
500 mg/L EC50 Pseudokirchneriella subcapitata 96 h
Freshwater Fish Species Data: 140.8 - 277.8 mg/L LC50 Pimephales promelas 96 h flow-through 1
262 - 855 mg/L LC50 Pimephales promelas 96 h static 1
193 mg/L LC50 Lepomis macrochirus 96 h flow-through 1
193 mg/L LC50 Lepomis macrochirus 96 h static 1
Water Flea Data: 1532 - 1847 mg/L EC50 Daphnia magna 48 h
190 mg/L EC50 Daphnia magna 48 h

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

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>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>J080</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN1593</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Dichloromethane</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Marine Pollutant:</td>
<td>No data available</td>
</tr>
<tr>
<td>ERG No:</td>
<td>160</td>
</tr>
</tbody>
</table>

Product code: PS724

Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
DOT RQ (lbs): No information available
Symbol(s): R4

TDG (Canada)
UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

ADR
UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: 6.1
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

IATA
UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>Present</td>
<td>Present</td>
<td>Present KE-23893</td>
<td>Present (2)-36</td>
<td>Present</td>
<td>Present</td>
<td>Present 200-838-9</td>
</tr>
</tbody>
</table>

U.S. Regulations

*Methylene Chloride*

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: Present
New Jersey (EHS) List: Present
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK - Environmental hazard
Special hazardous substance
Pennsylvania RTK - Environmental Hazard List: Present
Pennsylvania RTK - Special Hazardous Substances: Present
RI RTK - Hazardous Substances List: Present
Michigan - Critical Materials List: Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances: 1000 lb RQ
1 lb RQ
Louisiana Reportable Quantity List for Pollutants: 1000lb final RQ
454kg final RQ
California Directors List of Hazardous Substances: Present


ChemicalsKnown 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>Methylene Chloride</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>Methylene Chloride</td>
<td>1000 lb final RQ 454 kg final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>0.1 % de minimis concentration</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>Methylene Chloride</td>
<td>Not Applicable</td>
<td>10/04/1982 10/04/1992</td>
</tr>
</tbody>
</table>
Canada

WHMIS hazard class:
D1B  Toxic materials
D2A  Very toxic materials
D2B  Toxic materials

Methylene Chloride
   D1B  D2A  D2B

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>Methylene Chloride</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>Methylene Chloride</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>Methylene Chloride</td>
<td>Present</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R40 - Limited evidence of a carcinogenic effect

S -phrase(s)
S23 - Do not breathe gas/fumes/vapor/spray.
S24/25 - Avoid contact with skin and eyes.
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>Methylene Chloride</td>
<td>Carc.Cat.3; R40</td>
<td>No information</td>
<td>S2  S23  S24/25  S36/37</td>
</tr>
</tbody>
</table>

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

Indication of danger:
Xn - Harmful.

Xn

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 19-Jun-2014

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.
SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier
Product code: PS724
Product Name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)

Other means of identification
Synonyms: Aerothene MM
Chlorure de methylene (French)
Dichloromethane
Freon 30
HCC 30
Khladon 30
Methane dichloride
Methylene bichloride
Methylene chloride
Methylene dichloride
Narkotil
Solaesthin
Soleana VDA
Solmethine

CAS #: 75-09-2
RTECS #: PA8050000
CI#: Not available

Recommended use of the chemical and restrictions on use
Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

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

Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Acute toxicity - Oral Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Specific target organ toxicity (single exposure) Category 3
Specific target organ toxicity (repeated exposure) Category 2

Label elements

Warning

Hazard statements
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
May cause respiratory irritation. May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

Hazard statements

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
May be harmful if inhaled
May be harmful if absorbed through skin

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

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.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>75-09-2</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures
General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

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 breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Toxic if swallowed. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Most important symptoms and effects, both acute and delayed

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: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam. Alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
Specific hazards arising from the chemical

Hazardous Combustion Products: Hydrogen chloride gas; Carbon monoxide; Carbon dioxide; chlorinated hydrocarbons; trace amounts of phosgene and chlorine

Specific hazards: May be combustible at high temperatures. It may burn, but does not ignite readily. Container explosion may occur under fire conditions or when heated. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Air/vapor mixtures may explode when ignited. Fire may produce irritating and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.

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. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up: Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.
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. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride - 75-09-2</td>
<td>25 ppm TWA</td>
<td>None</td>
<td>50 ppm TWA</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>125 ppm STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride - 75-09-2</td>
<td>50 ppm TWA</td>
<td>25 ppm TWA</td>
<td>50 ppm TWA</td>
<td>50 ppm TWA</td>
</tr>
<tr>
<td></td>
<td>174 mg/m³ TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride - 75-09-2</td>
<td>suspected carcinogen</td>
<td>100 ppm TWA</td>
</tr>
<tr>
<td></td>
<td>50 ppm TWA</td>
<td>330 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>174 mg/m³ TWA</td>
<td>500 ppm STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1740 mg/m³ STEL</td>
</tr>
</tbody>
</table>

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.

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

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

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

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid.</td>
<td>No information available</td>
<td>Colorless.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Formula:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweet. Pleasant. Chloroform-like.</td>
<td>No information available</td>
<td>CH2Cl2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Molecular/Formula weight:</th>
<th>Flash point (°C):</th>
<th>Flashpoint (°C/°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>84.93</td>
<td>No data available</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point Tested according to:</th>
<th>Lower Explosion Limit (%):</th>
<th>Upper Explosion Limit (%):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>12-13%</td>
<td>19-23%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autoignition Temperature (°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
<th>Specific gravity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>556-605 °C/1033-1121 °F</td>
<td>No information available</td>
<td>1.3255 @ 20 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling point/range(°C/°F):</th>
<th>pH:</th>
<th>Melting point/range(°C/°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.8 °C/103.64 °F</td>
<td>No information available</td>
<td>-96.7 to -95 °C/-142.06 to -139 °F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Density (g/cm3):</th>
<th>Bulk density:</th>
<th>Vapor pressure @ 20°C (kPa):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>46.66</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.5 (butyl acetate = 1)</td>
<td>2.93</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Viscosity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-150</td>
<td>1.25</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miscibility:</th>
<th>Solubility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscible with alcohol</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>Miscible with Acetone</td>
<td>Soluble in Ether</td>
</tr>
<tr>
<td>Miscible with Carbon tetrachloride</td>
<td>Soluble in alcohol</td>
</tr>
<tr>
<td>Miscible with Chloroform</td>
<td>Soluble in Ethanol</td>
</tr>
<tr>
<td>Miscible with Ether</td>
<td>Soluble in Acetone</td>
</tr>
<tr>
<td>Miscible with Dimethylformamide</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miscibility:</th>
<th>Solubility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscible with alcohol</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>Miscible with Acetone</td>
<td>Soluble in Ether</td>
</tr>
<tr>
<td>Miscible with Carbon tetrachloride</td>
<td>Soluble in alcohol</td>
</tr>
<tr>
<td>Miscible with Chloroform</td>
<td>Soluble in Ethanol</td>
</tr>
<tr>
<td>Miscible with Ether</td>
<td>Soluble in Acetone</td>
</tr>
<tr>
<td>Miscible with Dimethylformamide</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Reactivity**
Contact with potassium-tert-butoxide can cause ignition
Prolonged heating of dichloromethane with water at 180 deg. C results in the formation of formic acid, methyl chloride, methanol, hydrochloric and some carbon monoxide
Reactive with oxidizing agents
Reactive with acids
Reacts with bases

**Chemical stability**
**Stability:** Stable at normal conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Keep away from open flames, hot surfaces and sources of ignition. Incompatible materials.


**Product code:** PS724
**Product name:** METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)

Other Information

Corrosivity: When dry, it is noncorrosive at normal atmospheric temperatures to common metals such as iron, copper, etc..

Special Remarks on Corrosivity: When it is in contact with water/moisture, especially at elevated temperatures, it will corrode iron, some stainless steels, copper, nickel and certain other metals

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Methylene Chloride - 75-09-2
LD50/oral/rat = 1410-2524 mg/kg Oral LD50 Rat
LD50/oral/mouse = 873-1987 mg/kg
LD50/dermal/rabbit = No information available
LD50/dermal/rat = >2000 mg/kg
LC50/inhalation/rat = 76000 mg/m³ 4 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 2000 mg/kg Oral LD50 Rabbit
3000 mg/kg Oral LD50 Dog

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 1410mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 873mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE - Acute Tox Dermal = >2000mg/kg

LC50/inhalation/rat
VALUE-Vapor = 76000mg/m³ (4-hr)
VALUE-Gas = No information available
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

Product code: PS724

Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PEESTISOLV(R)
Symptoms

**Skin Contact:** Causes skin irritation. Moderate skin irritation. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects. May be harmful if absorbed through skin.

**Eye Contact:** Causes eye irritation. Moderately irritating to the eyes. Causes conjunctival irritation. Causes conjunctivitis.

**Inhalation**
May be harmful if inhaled. Irritating to respiratory system. May affect respiration (respiratory depression). Causes lacrimation. Causes conjunctivitis. May cause loss of appetite. May cause nausea, vomiting. Inhalation of high concentrations of vapor may cause anesthetic effects. May cause acute bronchitis. It may cause pulmonary edema. Symptoms may include coughing and wheezing. Can cause dyspnea (shortness of breath and difficulty breathing). May affect behavior/central nervous system (central nervous system depression - headaches, lightheadedness, dizziness, euphoria, irritability, fatigue, somnolence, ataxia, stupor, irritability, hallucinations, loss of memory, convulsions, unconsciousness. May affect the brain. May cause numbness and tingling of the extremities (hands and feet). May cause carboxyhemoglobinemia (a conversion of methylene chloride to carbon monoxide in the lungs, which yields increased concentrations of carboxyhemoglobin in the blood). May affect the kidneys. It may affect the liver. It may affect the adrenal gland.

**Ingestion**
Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May affect urinary system (kidneys). May cause tingling, pricking feeling, or numbness in the extremities. May affect behavior/central nervous system (convulsions). May affect behavior/central nervous system (somnolence, ataxia). May affect the blood (anemia). May affect the cardiovascular system (hypotension or hypertension, tachycardia). May cause loss of appetite.

**Aspiration hazard**
No information available

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

**Chronic Toxicity**
Prolonged skin contact may cause skin irritation and/or dermatitis. Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated ingestion may affect metabolism (weight loss). Prolonged or repeated inhalation or ingestion may affect the peripheral nervous system (weakness, paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)). Prolonged or repeated ingestion may affect the liver. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated ingestion may affect the brain. Prolonged or repeated inhalation may cause carboxyhemoglobinemia (a conversion of methylene chloride to carbon monoxide in the lungs, which yields increased concentrations of carboxyhemoglobin in the blood). Prolonged or repeated inhalation may affect the cardiovascular system (cardiac dysrhythmias and cardiac depression, heart disease).
Prolonged or repeated inhalation may cause central nervous system effects.
Prolonged or repeated inhalation may affect the spleen.

**Sensitization:**
No information available

**Mutagenic Effects:**
May affect genetic material
Animal experiments showed mutagenic effects
Mutagenic effects in mammalian somatic cells
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Product code: PS724  
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
Carcinogenic effects: Possibly carcinogenic to humans. Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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

ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity
No data is available

Reproductive Effects:
There is concern that methylene chloride exposure may produce testicular toxicity, but animal and human data on this matter is very limited. In one group of case reports, 4 of 34 men with occupational exposure to methylene chloride were found to have sperm concentrations in the subfertile or infertile range. Four other men had testicular or prostatic pain. In a small uncontrolled study organized by the National Institute of Occupational Safety and Health, no signs of oligospermia were found in 20 workers exposed to methylene chloride.

Developmental Effects:
A possible association with spontaneous abortion has been noted in 2 human studies. However, there is limited evidence.

Teratogenic Effects:
May cause birth defects (teratogenic effects) based on animal test data. Showed teratogenic effects in animal experiments. High doses of methylene chloride given to pregnant rats and mice were shown by one study to increase the incidence of minor skeletal anomalies although other studies in rats found this agent not to be associated with an increase in congenital anomalies.

Specific Target Organ Toxicity

STOT - single exposure
respiratory system. central nervous system.

STOT - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Target Organs:

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:
Aquatic environment.

Methylene Chloride - 75-09-2

Freshwater Algae Data: 500 mg/L EC50 Pseudokirchneriella subcapitata 72 h
500 mg/L EC50 Pseudokirchneriella subcapitata 96 h

Freshwater Fish Species Data: 140.8 - 277.8 mg/L LC50 Pimephales promelas 96 h flow-through 1
262 - 855 mg/L LC50 Pimephales promelas 96 h static 1
193 mg/L LC50 Lepomis macrochirus 96 h flow-through 1
193 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data: 1532 - 1847 mg/L EC50 Daphnia magna 48 h
190 mg/L EC50 Daphnia magna 48 h

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
Methylene Chloride - 75-09-2

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>Methylene Chloride</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>J080</td>
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14. TRANSPORT INFORMATION

DOT

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Subsidiary Risk: Not applicable
Packing Group: III
Marine Pollutant: No data available
ERG No: 160
DOT RQ (lbs): No information available
Symbol(s): R4

TDG (Canada)

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

ADR

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available
14. TRANSPORT INFORMATION

IMO / IMDG

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<td>EMS:</td>
<td>F-A</td>
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<td>MFAG:</td>
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<td>Maximum Quantity:</td>
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RID

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ICAO

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15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Methylene Chloride</td>
<td>Present</td>
<td>Present</td>
<td>Present (2)-36</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present 200-838-9</td>
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U.S. Regulations

Methylene Chloride

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: Present
- New Jersey (EHS) List: Present
- New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Product code: PS724

Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)

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>
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<tbody>
<tr>
<td>Methylene Chloride</td>
<td>carcinogen</td>
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<td>Not Listed</td>
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</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>Methylene Chloride</td>
<td>1000 lb final RQ 454 kg final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>0.1 % de minimis concentration</td>
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</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>
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</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>Not Applicable</td>
<td>10/04/1982 10/04/1992</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
D1B Toxic materials
D2A Very toxic materials
D2B Toxic materials

Methylene Chloride
D1B D2A D2B

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>
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</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>0.1 %</td>
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Inventory

Product code: PS724
Product name: METHYLENE CHLORIDE, STABILIZED WITH AMYLENE, PESTISOLV(R)
Components | Canada (DSL) | Canada (NDSL)
---|---|---
Methylene Chloride | Present | Not Listed

EU Classification

**R-phrase(s)**
R40 - Limited evidence of a carcinogenic effect

**S-phrase(s)**
S23 - Do not breathe gas/fumes/vapor/spray.
S24/25 - Avoid contact with skin and eyes.
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>
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</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>Carc.Cat.3; R40</td>
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</tr>
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</table>

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

**Indication of danger:**
Xn - Harmful.

**Xn**

### 16. OTHER INFORMATION
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>![Eye Protection, Respirator, Gloves]</td>
</tr>
<tr>
<td>0</td>
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<td>See Section 8.</td>
</tr>
</tbody>
</table>

Preparation Date: 6/18/2014
Revision Date: 6/18/2014
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 Material Safety Data Sheet