

SAFETY DATA SHEET

Preparation Date: 6/18/2014

Revision Date: 8/21/2018

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: M1252
Product Name: METHYLENE CHLORIDE, TECHNICAL

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

Recommended use: Chemical intermediate. Solvent. Extraction solvent for decaffeination of coffee, spices, and beer hops.
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>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
 Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)


| | |
|-----------------------|------------|
| 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



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if inhaled
 May be harmful if absorbed through skin
 Contact with flame or hot glowing surface may produce toxic gases

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
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Do not breathe dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

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 water
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash it before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
 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

| Components | CAS-No. | Weight % |
|--------------------|---------|----------|
| Methylene Chloride | 75-09-2 | 100 |

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. 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 clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Flush eyes 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. 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 eye irritation
 - Causes skin irritation
 - Irritating to respiratory system
 - Central nervous system effects
 - anesthetic
 - Drowsiness
 - Headache
 - Convulsions
 - Narcosis
 - Unconsciousness
 - Dyspnea (Shortness of breath and difficulty breathing)
 - May cause pulmonary edema
 - May cause nausea, headache, vomiting
 - May cause diarrhea
 - May cause cardiovascular effects
 - May cause loss of appetite

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: M1252

Product name: METHYLENE
CHLORIDE, TECHNICAL

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Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide. Hydrogen Chloride Gas. phosgene.

Specific hazards: May be combustible at high temperatures. It may burn, but does not readily ignite. 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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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:

- Oxidizing agents
- Bases
- Caustics
- Amines
- Acids
- Nitric acid
- Perchloric acid
- Alkali Metals
- Potassium
- Sodium
- Lithium
- Alkaline Earth metals
- Magnesium sulfate
- Metals
- Aluminum
- Titanium
- Potassium t-butoxide

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Components | CAS-No. | OSHA | NIOSH | ACGIH | AIHA WEEL |
|--------------------|---------|----------------------------|-------|------------|-----------|
| Methylene Chloride | 75-09-2 | 25 ppm TWA 125 ppm STEL | None | 50 ppm TWA | None |

Canada

| Components | CAS-No. | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|--------------------|---------|---|---------------------------|------------------|-----------------|
| Methylene Chloride | 75-09-2 | 50 ppm TWA 174 mg/m ³ TWA | 25 ppm TWA | None | None |

Australia and Mexico

| Components | CAS-No. | Australia | Mexico |
|--------------------|---------|---|---|
| Methylene Chloride | 75-09-2 | suspected carcinogen 50 ppm TWA 174 mg/m ³ TWA | 100 ppm TWA 330 mg/m ³ TWA 500 ppm STEL 1740 mg/m ³ STEL |

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

| | | |
|---|---|--|
| Physical state: Liquid | Appearance: No information available. | Color: Colorless. |
| Odor: Sweet. Pleasant. Chloroform-like. | Taste No information available. | Formula: CH ₂ Cl ₂ |
| Molecular/Formula weight (g/mole): 84.93 | Flammability: No information available | Flashpoint (°C/°F): No information available. |
| Flash Point Tested according to: Not available | Autoignition Temperature (°C/°F): 556-605 °C/1033-1121 °F | Lower Explosion Limit (%): 12-13% |
| Upper Explosion Limit (%): 19-23% | Melting point/range(°C/°F): -96.7 to -95 °C/-142.06 to -139 °F | Decomposition temperature(°C/°F): No information available |
| Boiling point/range(°C/°F): 39.8 °C/103.64 °F | Bulk density: No information available | Density (g/cm³): No information available |
| Specific gravity: 1.3255 @ 20 °C 1.318-1.322 @ 25 °C | pH: No information available | Vapor pressure @ 20°C (kPa): 46.66 |
| Evaporation rate: 27.5 (butyl acetate = 1) | Vapor density: 2.93 | VOC content (g/L): No information available |
| Odor threshold (ppm): 25-150 | Partition coefficient (n-octanol/water): 1.25 | Viscosity: No information available |
| 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 hot alcohol Soluble in Ethanol Soluble in Acetone | |

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 strong bases

Chemical stability

Stability: Stable under recommended storage 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.

Incompatible Materials: Oxidizing agents
Bases
Caustics
Amines
Acids
Nitric acid
Perchloric acid
Alkali Metals
Potassium
Sodium
Lithium
Alkaline Earth metals
Magnesium sulfate
Metals
Aluminum
Titanium
Potassium t-butoxide

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.

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 | |
| CAS-No. | 75-09-2 |

LD50/oral/rat = 1600 mg/kg Oral LD50 Rat; 1410-2524 mg/kg

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; 53 mg/L Inhalation LC50 6 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 = 1410 mg/kg

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

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

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

LC50/inhalation/rat
VALUE-Vapor = 76000 mg/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

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 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 diarrhea. May affect urinary system (kidneys). May cause tingling,

pricking feeling, or numbness in the extremities. May affect behavior/central nervous system (convulsions/seizures). 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 inhalation 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 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.

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

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

| Components | CAS-No. | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|--------------------|---------|---|---|---|---|--|--|
| Methylene Chloride | 75-09-2 | Group 2B - Monograph 110 [2017] Monograph 71 [1999] | A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans | Reasonably Anticipated To Be A Human Carcinogen | Present Cancer suspect agent - see 29 CFR 1910.1052 | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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:

Liver. Kidneys. Central nervous system. Respiratory system. Lungs. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

Aquatic environment.

Methylene Chloride - 75-09-2

Freshwater Algae Data:

500 mg/L EC50 Pseudokirchneriella subcapitata 96 h 500 mg/L EC50 Pseudokirchneriella subcapitata 72 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 static 1 193 mg/L LC50 Lepomis macrochirus 96 h flow-through 1

Water Flea Data:

1532 - 1847 mg/L EC50 Daphnia magna 48 h 190 mg/L EC50 Daphnia magna 48 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

| Components | CAS-No. | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------------|---------|------------------------|------------------------|------------------------|------------------------|
| Methylene Chloride | 75-09-2 | None | None | None | U080 |

14. TRANSPORT INFORMATION

DOT

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 160
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: IB8, IP8, N36, T7, TP2
Symbol(s): [DOT]: (R4) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 1000 pounds (454 Kilograms).
Description: UN1593, Dichloromethane, 6.1, III

TDG (Canada)

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

ADR

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Special Provisions: 516
Description: UN1593, Dichloromethane, 6.1, III

IMO / IMDG

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No information available
EMS: F-A
Description: UN1593, Dichloromethane, 6.1, III

RID

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Subsidiary Risk: 6.1
Packing Group: III
Special Provisions: 516
Description: UN1593, Dichloromethane, 6.1, III

ICAO

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

Description: UN1593, Dichloromethane, 6.1, III

IATA

UN-No: UN1593
Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6L
Special Provisions Description: No information available
UN1593, Dichloromethane, 6.1, III

15. REGULATORY INFORMATION

International Inventories

| Components | CAS-No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|--------------------|---------|---------------|------------------|---------------------|----------------|---------|------------------|-------------------|
| Methylene Chloride | 75-09-2 | PresentACTIVE | Present KE-23893 | Present | Present (2)-36 | Present | Present | Present 200-838-9 |


U.S. Regulations

Methylene Chloride

- Massachusetts RTK:** Present
- New Jersey RTK Hazardous Substance List:** 1255
- New Jersey (EHS) List:** 1255 500 lb TPQ
- 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
- 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:** 1000lbfinal RQ
454kgfinal RQ
- California Directors List of Hazardous Substances:** Present
- FDA - Direct Food Additives:** 21 CFR 173.255
- FDA - 21 CFR - Total Food Additives:** 172.560, 173.255, 175.105, 177.1580, 177.1585, 73.1, 73.30, 73.345, 73.615

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

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)

| Components | CAS-No. | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|--------------------|---------|------------|------------------------|----------------------------|-------------------------------|
| Methylene Chloride | 75-09-2 | carcinogen | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| Components | CAS-No. | CERCLA - Hazardous Substances and their Reportable | Section 302 Extremely Hazardous Substances | Section 302 Extremely Hazardous Substances and | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|------------|---------|--|--|--|---------------------------------|------------------------------------|
|------------|---------|--|--|--|---------------------------------|------------------------------------|

| | | Quantities | and TPQs | RQs | | |
|--------------------|---------|-------------------------------------|----------|------|------|--------------------------------|
| Methylene Chloride | 75-09-2 | 1000 lb final RQ 454 kg final RQ | None | None | None | 0.1 % de minimis concentration |

U.S. TSCA

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|--------------------|---------|---|--|
| Methylene Chloride | 75-09-2 | Not Applicable | Not Applicable |

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Methylene Chloride
75-09-2 (100)

WHMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
Skin corrosion/irritation - Category 2: H315 Causes skin irritation.;
Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.;
Carcinogenicity - Category 1B: H350 May cause cancer.;
Specific target organ toxicity - Single exposure - Category 1: H370 Causes damage to organs.;
Specific target organ toxicity - Single exposure - Category 3: H336 May cause drowsiness or dizziness.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D1B Toxic materials
D2A Very toxic materials
D2B Toxic materials

Components
Methylene Chloride

WHMIS 1988
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.

| Components | WHMIS Ingredient Disclosure List - |
|--------------------|------------------------------------|
| Methylene Chloride | 0.1 % |

Inventory

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|--------------------|---------|--------------|---------------|
| Methylene Chloride | 75-09-2 | Present | Not Listed |

| Components | CAS-No. | CEPA Schedule 1 - Toxic Substances |
|--------------------|---------|---|
| Methylene Chloride | 75-09-2 | Present |
| Components | CAS-No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| Methylene Chloride | 75-09-2 | Not listed |

EU Classification

EU GHS - SV - CLP 1272/2008

| Components | CAS-No. | EU GHS - SV - CLP (1272/2008) |
|--------------------|---------|---------------------------------|
| Methylene Chloride | 75-09-2 | Carcinogenicity - Carc. 2: H351 |

Product code: M1252

Product name: METHYLENE
CHLORIDE, TECHNICAL

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| | | |
|--|--|--|
| | | Suspected of causing cancer.602-004-00-3 |
|--|--|--|

EU - CLP (1272/2008)

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.

| Components | CAS-No. | Classification | Concentration Limits: | Safety Phrases |
|--------------------|---------|-----------------|-----------------------|-------------------------|
| Methylene Chloride | 75-09-2 | Carc.Cat.3; R40 | No information | S2 S23 S24/25 S36/37 |

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

Indication of danger:

Xn - Harmful.

Xn



16. OTHER INFORMATION

Preparation Date: 6/18/2014
Revision Date: 8/21/2018
Prepared by: Sonia Owen

Disclaimer:

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End of Safety Data Sheet