

Preparation Date: 01/01/2019

Revision Date: N/A

Revision Number: N/A

## 1. IDENTIFICATION

**Product identifier****Product code:** C3570**Product Name:** DICHLOROMETHANE, REAGENT, ACS**Other means of identification****Synonyms:**

Aerotherne 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:**

**Dawn Scientific Inc**  
121 Liberty Street, Metuchen, NJ, 08840  
Tel : 732-902-6300 | Fax : 973-802-1005  
sales@dawnscientific.com | www.dawnscientific.com

**Emergency telephone number** Chemtrec 1-800-424-9300

## 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**

<b>General Advice:</b>	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.
<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion:</b>	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**

<b>Symptoms</b>	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
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician:</b>	Treat symptomatically.
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**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 (CO<sub>2</sub>). Dry chemical. Water spray mist or

foam. Alcohol-resistant foam.

**Unsuitable Extinguishing Media:**

No information available.

**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 <sup>3</sup> 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 <sup>3</sup> TWA	100 ppm TWA 330 mg/m <sup>3</sup> TWA 500 ppm STEL 1740 mg/m <sup>3</sup> 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

<b>Eye protection:</b>	Goggles
<b>Skin and body protection:</b>	Chemical resistant apron Gloves Long sleeved clothing
<b>Respiratory protection:</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	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

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Colorless.
<b>Odor:</b> Sweet. Pleasant. Chloroform-like.	<b>Taste</b> No information available.	<b>Formula:</b> CH <sub>2</sub> Cl <sub>2</sub>
<b>Molecular/Formula weight (g/mole):</b> 84.93	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> 556-605 °C/1033-1121 °F	<b>Lower Explosion Limit (%):</b> 12-13%
<b>Upper Explosion Limit (%):</b> 19-23%	<b>Melting point/range(°C/°F):</b> -96.7 to -95 °C/-142.06 to -139 °F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 39.8 °C/103.64 °F	<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> No information available
<b>Specific gravity:</b> 1.3255 @ 20 °C 1.318-1.322 @ 25 °C	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 46.66
<b>Evaporation rate:</b> 27.5 (butyl acetate = 1)	<b>Vapor density:</b> 2.93	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> 25-150	<b>Partition coefficient (n-octanol/water):</b> 1.25	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Miscible with alcohol Miscible with Acetone Miscible with Carbon tetrachloride Miscible with Chloroform Miscible with Ether	<b>Solubility:</b> Slightly soluble in water Soluble in Ether Soluble in hot alcohol Soluble in Ethanol Soluble in Acetone	

Miscible with Dimethylformamide

## 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/m<sup>3</sup> 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/m<sup>3</sup> (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)

<b><u>Reproductive toxicity</u></b>	No data is available
<b>Reproductive Effects:</b>	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
<b>Developmental Effects:</b>	A possible association with spontaneous abortion has been noted in 2 human studies. However, there is limited evidence
<b>Teratogenic Effects:</b>	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
<b><u>Specific Target Organ Toxicity</u></b>	
<b>STOT - single exposure</b>	Respiratory system. central nervous system.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Target Organs:</b>	Liver. Kidneys. Central nervous system. Respiratory system. Lungs. Skin.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

<b>Ecotoxicity effects:</b>	Aquatic environment.
<i>Methylene Chloride - 75-09-2</i>	
<b>Freshwater Algae Data:</b>	500 mg/L EC50 Pseudokirchneriella subcapitata 96 h 500 mg/L EC50 Pseudokirchneriella subcapitata 72 h
<b>Freshwater Fish Species Data:</b>	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
<b>Water Flea Data:</b>	1532 - 1847 mg/L EC50 Daphnia magna 48 h 190 mg/L EC50 Daphnia magna 48 h
<b>Persistence and degradability:</b>	No information available
<b>Bioaccumulative potential:</b>	No information available.
<b>Mobility:</b>	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** No information available  
**Description:** 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.
<i>Methylene Chloride</i>	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](http://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 Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
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 I - 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 Suspected of causing cancer.602-004-00-3

### EU - CLP (1272/2008)

### R-phrases(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:** 01/01/2019

**Revision Date:** N/A

**Prepared by:** -

**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. Dawn Scientific Inc Chemicals & Laboratory Products, 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, Dawn Scientific Inc assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**