

## SAFETY DATA SHEET

Preparation Date: 1/23/2014

Revision date 1/22/2019

Revision Number: G3

### 1. Identification

#### Product identifier

**Product code:** SP125  
**Product Name:** Chloroform, Spectrophotometric Grade, ACS, stabilized

#### Other means of identification

**Synonyms:** CHLOROFORME (French)  
 CHLOROFORMO (TRICLOROMETANO) (Spanish)  
 FORMYL TRICHLORIDE  
 METHANE TRICHLORIDE  
 METHANE, TRICHLORO-  
 METHENYL CHLORIDE  
 METHENYL TRICHLORIDE  
 METHYL TRICHLORIDE  
 TRICHLOROFORM  
 TRICHLOROMETHANE

**CAS #:** 67-66-3  
**RTECS #** FS9100000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Solvent. Chemical intermediate.  
**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:** Tom Tyner (USA - West Coast)

**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by 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
Reproductive toxicity	Category 2

**Product code:** SP125

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 Spectrophotometric Grade, ACS,  
 stabilized

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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  
 Suspected of damaging fertility or the unborn child  
 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**

Harmful to aquatic life

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 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 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.  
 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

Component	CAS No	Weight-%
Chloroform	67-66-3	99-99.5
Ethyl Alcohol 200 proof	64-17-5	0.5-1

## 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.
- 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. If symptoms persist, call a physician.
- 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 serious eye irritation
  - Moderate eye irritation
  - Causes skin irritation
  - Moderate skin irritation
  - Irritating to respiratory system
  - Central nervous system effects
  - Drowsiness
  - Dizziness
  - Ataxia
  - Fatigue
  - Headache
  - Narcosis
  - May cause cardiovascular effects
  - May affect respiration
  - Nausea
  - Vomiting
  - It may affect the kidneys
  - May affect the liver
  - May cause digestive (gastrointestinal) tract irritation

### 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:**

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of

surrounding fire.

**Unsuitable Extinguishing Media:**

No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products**

Chloroform does not burn, but may decompose upon heating to produce the following if involved in a fire: carbon monoxide, carbon dioxide, hydrogen chloride and chlorine.

**Specific hazards**

No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:**

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

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

**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. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. 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. Protect from light. Sensitive to light. Store in light-resistant containers. Store in a segregated and

approved area. Store away from incompatible materials.

**Incompatible Materials:**

- Oxidizing agents
- Acids
- Alkalis
- Aluminum
- Potassium t-butoxide
- Alkali Metals
- Lithium
- Sodium
- Potassium
- Alkaline Earth metals
- Magnesium sulfate

Chloroform reacts violently with or may explode if it comes in contact with the following: Perchloric acid + Methanol; Sodium + Methanol; Sodium methylate + Methanol; Sodium hydroxide + Methanol; Acetone; Carbon tetrachloride; disilane; Nitrogen tetroxide; Sodium methylate; Sodium-Potassium alloy; Triisopropyl phosphine; 2-Nitrophenylacetyl chloride; Perchloric acid + Phosphorus pentoxide

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Chloroform	67-66-3	50 ppm Ceiling 240 mg/m <sup>3</sup> Ceiling	2 ppm STEL 9.78 mg/m <sup>3</sup> STEL	10 ppm TWA	None
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	1000 ppm STEL	None

**Canada**

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Chloroform	67-66-3	10 ppm TWA 49 mg/m <sup>3</sup> TWA	2 ppm TWA	None	None
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1880 mg/m <sup>3</sup> TWA	1000 ppm STEL	1000 ppm STEL	None

**Australia and Mexico**

Component	CAS No	Australia	Mexico
Chloroform	67-66-3	2 ppm TWA 10 mg/m <sup>3</sup> TWA	10 ppm TWA 50 mg/m <sup>3</sup> TWA 50 ppm STEL 225 mg/m <sup>3</sup> STEL
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1880 mg/m <sup>3</sup> TWA	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**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 Long sleeved clothing Gloves
<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 and face 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> No information available.
<b>Odor:</b> Pleasant. Etheric. Non-irritating.	<b>Taste</b> Sweet.	<b>Formula</b> CHCl <sub>3</sub>
<b>Molecular/Formula weight (g/mole):</b> 119.38	<b>Flammability (solid, gas)</b> no data available	<b>Flashpoint (°C/°F):</b> No information available
<b>Flash Point Tested according to:</b> Not applicable	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> -64 to -63 °C/-83.26-81.4 °F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 61-62 °C/141.8-143.6 °F	<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> 1.48-1.49
<b>Specific gravity:</b> 1.484 @ 20 °C 1.476-1.488 @ 25 °C	<b>pH</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 21.2-21.3 @ 20 deg. C 26.3 @ 25 deg. C.
<b>Evaporation rate:</b> 11.6 (butyl acetate =1)	<b>Vapor density:</b> 4.12-4.36	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> 85	<b>Partition coefficient (n-octanol/water):</b> log Kow = 1.97	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Miscible with Carbon disulfide Miscible with Carbon tetrachloride Miscible with Benzene Miscible with alcohol Miscible with Acetone Miscible with Petroleum Ether Miscible with many organic solvents Miscible with Ether	<b>Solubility:</b> Slightly soluble in water Soluble in Ether Soluble in Benzene Soluble in hot alcohol Soluble in Acetone Soluble in Carbon tetrachloride Soluble in organic solvents Soluble in Petroleum Ether Soluble in Carbon Disulfide	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents

Reactive with acids

Reactive with alkalis

Reacts with alkali metals

Reacts with alkaline earth metals

Chloroform reacts violently with or may explode if it comes in contact with the following: Perchloric acid + Methanol; Sodium + Methanol; Sodium methylate + Methanol; Sodium hydroxide + Methanol; Acetone; Carbon tetrachloride; disilane; Nitrogen tetroxide; Sodium methylate; Sodium-Potassium alloy; Triisopropyl phosphine; 2-Nitrophenylacetyl chloride; Perchloric acid + Phosphorus pentoxide

### Chemical stability

**Stability:** Stable under recommended storage conditions.

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

**Conditions to avoid:** Heat. Exposure to light. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Acids  
Alkalis  
Aluminum  
Potassium t-butoxide  
Alkali Metals  
Lithium  
Sodium  
Potassium  
Alkaline Earth metals  
Magnesium sulfate  
Chloroform reacts violently with or may explode if it comes in contact with the following: Perchloric acid + Methanol; Sodium + Methanol; Sodium methylate + Methanol; Sodium hydroxide + Methanol; Acetone; Carbon tetrachloride; disilane; Nitrogen tetroxide; Sodium methylate; Sodium-Potassium alloy; Triisopropyl phosphine; 2-Nitrophenylacetyl chloride; Perchloric acid + Phosphorus pentoxide

**Hazardous decomposition products:** Hydrogen chloride gas. Chlorine. Carbon dioxide. Carbon monoxide.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Inhalation. Ingestion.

### Acute Toxicity

### **Component Information**

**Product code:** SP125

**Product name:** Chloroform,  
Spectrophotometric Grade, ACS,  
stabilized

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Chloroform	
CAS No	67-66-3

**LD50/oral/rat** = 450 mg/kg Oral LD50 Rat; 695 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 36 mg/kg (RTECS)  
 36-460 mg/kg (European Commission IUCLID Dataset)  
 353-1366 mg/kg (European Commission IUCLID Dataset)

**LD50/dermal/rabbit** = >20 g/kg Dermal LD50Rabbit  
 >3980 mg/kg (LOLI; European Commission IUCLID Dataset)  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 47702 mg/m<sup>3</sup> Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = 17200 mg/m<sup>3</sup> 2 h  
 6000 mg/m<sup>3</sup> 6 h  
**Other LD50 or LC50 information** = 820 mg/kg Oral LD50 Guinea Pig

Ethyl Alcohol 200 proof	
CAS No	64-17-5

**LD50/oral/rat** = 7060 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 3450 mg/kg Oral LD50 Mouse  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 124.7 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = 39000 mg/m<sup>3</sup> 4 h  
**Other LD50 or LC50 information** = >60000 ppm Inhalation LC50 Mouse 1 h  
 5900 mg/m<sup>3</sup> Inhalation LC50 Rat 6 h  
 20000 ppm Inhalation LC50 Rat 10 h  
 5560 mg/kg Oral LD50 Guinea Pig  
 6300 mg/kg Oral LD50 Rabbit

## Product Information

**LD50/oral/rat** =  
**Value - Acute Tox** = 695 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 353-1366 mg/kg

**LD50/dermal/rabbit**  
**Value - Acute Tox** = > 3980 mg/kg

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

**LC50/inhalation/rat**  
**VALUE-Vapor** = 47.7 mg/l (4-hr)  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = 17200 mg/m<sup>3</sup> 2 h  
 6000 mg/m<sup>3</sup> 6 h  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

## Symptoms



<b>Skin Contact:</b>	Causes skin irritation. Mildly to highly irritating. It may be absorbed through the skin.
<b>Eye Contact:</b>	Causes eye irritation. Moderately irritating to the eyes. Causes conjunctivitis. May cause reversible eye damage.
<b>Inhalation</b>	Irritating to respiratory system. May cause nausea, vomiting. May cause salivation. May cause dry mouth, thirst. May cause dizziness and headache. Inhalation of high concentrations of vapor may cause anesthetic effects. May affect behavior/central nervous system (excitation, followed by central nervous system depression, nervousness, irritability, hallucinations, delirium, euphoria, apathy, ataxia, loss of judgement, disorientation, inebriation, fatigue, lassitude, mental dullness, weakness, narcosis, fainting sensation, unconsciousness (anesthesia), coma). It may affect the cardiovascular system (hypotension, cardiac arrhythmias, cardiac arrest). May affect respiration (respiratory depression). May affect respiration (anoxia, increase in rate and depth of respiration). May cause anorexia. It may affect the liver. May affect the kidneys. May produce a sensation of bodily warmth. May cause pupillary dilation with decreased reaction to light.
<b>Ingestion</b>	Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. It causes irritation or a burning sensation of the mouth and throat. May affect urinary system (kidneys). May affect liver. It may affect the blood (leukocytosis, fall in the plasma prothrombin level and an increase in time for the blood to clot).
<b>Aspiration hazard</b>	No information available.

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

<b>Chronic Toxicity</b>	Prolonged or repeated inhalation may cause pneumoconiosis. Prolonged or repeated inhalation may cause dry mouth, thirst, gastroenteritis, nausea, vomiting, diarrhea, loss of appetite or anorexia, weight loss. Prolonged or repeated inhalation may affect behavior/central nervous system (headache, hallucinations, ataxia, loss of reflexes, psychotic behavior, dysarthria (motor speech disorder)), and cause degenerative changes of the brain. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the heart. Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or repeated ingestion may cause loss of appetite. Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Prolonged or repeated inhalation may affect the blood (changes in white blood cell count). Prolonged or repeated inhalation may affect the blood (change in clotting factors). Prolonged or repeated inhalation may affect the spleen. Prolonged or repeated inhalation may cause hyperglycemia. Prolonged or repeated inhalation may cause ketosis (ketone bodies formed in the blood when liver glycogen stores are depleted).
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**Sensitization:** No information available.

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

**Carcinogenic effects:** May cause cancer based on animal test data. Limited evidence of a carcinogenic

effect. Possibly carcinogenic to humans.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Chloroform	67-66-3	Group 2B - Possibly carcinogenic to humans - Monograph 73 [1999]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed
Ethyl Alcohol 200 proof	64-17-5	Group 1 - Monograph 100E [2012] in alcoholic beverages Monograph 96 [2010] in alcoholic beverages	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Present	Not listed	Not listed

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**

Suspected of damaging fertility or the unborn child

**Reproductive Effects:  
Developmental Effects:**

No information available  
May cause adverse developmental effects  
Possible risk of harm to the unborn child

**Teratogenic Effects:**

May cause birth defects (teratogenic effects) based on animal test data

**Specific Target Organ Toxicity**

**STOT - single exposure  
STOT - repeated exposure  
Target Organs:**

respiratory system. central nervous system.  
May cause damage to organs through prolonged or repeated exposure.  
Central nervous system. Respiratory system. Kidneys. Liver. Skin. Heart.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:**

Aquatic environment.

*Chloroform - 67-66-3*

**Algae/aquatic plants  
Fish**

560 mg/L EC50 *Desmodesmus subspicatus* 48 h  
71 mg/L LC50 *Pimephales promelas* 96 h flow-through 1 18 mg/L LC50  
*Oncorhynchus mykiss* 96 h flow-through 1 18 mg/L LC50 *Lepomis macrochirus* 96  
h flow-through 1 300 mg/L LC50 *Poecilia reticulata* 96 h static 1  
29 mg/L EC50 *Daphnia magna* 48 h

**Crustacea**

*Ethyl Alcohol 200 proof - 64-17-5*

**Fish**

12.0 - 16.0 mL/L LC50 *Oncorhynchus mykiss* 96 h static 1 100 mg/L LC50  
*Pimephales promelas* 96 h static 1 13400 - 15100 mg/L LC50 *Pimephales  
promelas* 96 h flow-through 1

**Crustacea**

9268 - 14221 mg/L LC50 *Daphnia magna* 48 h 2 mg/L EC50 *Daphnia magna* 48 h  
10800 mg/L EC50 *Daphnia magna* 24 h

**Persistence and degradability:** No information available  
**Bioaccumulative potential:** No information available.  
**Mobility in soil** No information available  
**Other adverse effects** 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Chloroform	67-66-3	None	None	None	U044
Ethyl Alcohol 200 proof	64-17-5	None	None	None	None

### 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** UN1888  
**Proper Shipping Name:** Chloroform  
**Hazard Class** 6.1  
**Subsidiary Class** No information available  
**Packing group:** III  
**Emergency Response Guide Number** 151  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** IB3, N36, T7, TP2  
**Symbol(s):** [DOT]: (R2) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 10 pounds (4.54 Kilograms).  
**Description:** UN1888, Chloroform, 6.1, III

**TDG (Canada)**

**UN-No:** UN1888  
**Proper Shipping Name:** Chloroform  
**Hazard Class** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No Information available  
**Description:** UN1888, Chloroform, 6.1, III

**ADR**

**UN Number** UN1888  
**Proper Shipping Name:** Chloroform  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**Subsidiary Risk:** No information available

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**Description:** UN1888, Chloroform, 6.1, III

**IMDG**

**UN-No:** UN1888  
**Proper Shipping Name:** Chloroform  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Description** UN1888, Chloroform, 6.1, III

**RID**

**UN Number** UN1888  
**Proper Shipping Name:** Chloroform  
**Transport hazard class(es)** 6.1  
**Subsidiary Risk:** 6.1  
**Packing group** III  
**Description:** UN1888, Chloroform, 6.1, III

**ICAO (air)**

**UN-No:** UN1888  
**Proper Shipping Name:** Chloroform  
**Hazard Class** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1888, Chloroform, 6.1, III

**IATA**

**UN Number** UN1888  
**Proper Shipping Name:** Chloroform  
**Transport hazard class(es)** 6.1  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Precautionary Statements - Response** 6A  
**Special Provisions** No information available  
**Description:** UN1888, Chloroform, 6.1, III

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
<i>Chloroform</i>	67-66-3	PresentACTIV E	Present KE-34076	Present	Present (2)-37	Present	Present	Present 200-663-8
<i>Ethyl Alcohol 200 proof</i>	64-17-5	Present(ACTI VE)	KE-13217	Present	(2)-202	Present	Present	Present 200-578-6

**U.S. Regulations**

*Chloroform*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 0388  
**New Jersey (EHS) List:** 0388 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present

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**New Jersey TCPA - EHS:** 20000lbTQ  
**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:**  
 10 lb RQ  
 1 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** 10lbfinal RQ  
 4.54kgfinal RQ  
**California Directors List of Hazardous Substances:** Present

**FDA - 21 CFR - Total Food Additives** 175.105, 177.1580, 177.1585  
**- List Sourced from EAFUS**


*Ethyl Alcohol 200 proof*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 0844  
**Pennsylvania RTK:** Present  
**Minnesota - Hazardous Substance List:** Present  
**Louisiana Reportable Quantity List for Pollutants:** Present (listed as Volatile Organic Compounds)  
**California Directors List of Hazardous Substances:** Present  
**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1293


**FDA - 21 CFR - Total Food Additives** 169.175, 169.176, 169.177, 169.181, 172.340, 172.560, 172.580, 175.105, 176.180,  
**- List Sourced from EAFUS** 176.200, 177.1200, 177.1650, 178.1010, 184.1293, 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:**

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Chloroform	67-66-3	carcinogen	developmental toxicity	Not Listed	Not Listed
Ethyl Alcohol 200 proof	64-17-5	carcinogen (Ethanol in alcoholic beverages)	developmental toxicity (Ethyl alcohol in alcoholic beverages)	Not Listed	Not Listed

**CERCLA/SARA**

Component	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
<i>Chloroform</i>	67-66-3	10 lb final RQ 4.54 kg final RQ	10 lb EPCRA RQ	None	None	0.1 % de minimis concentration
<i>Ethyl Alcohol 200 proof</i>	64-17-5	None	None	None	None	None

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Chloroform	67-66-3	Not Applicable	Not Applicable
Ethyl Alcohol 200 proof	64-17-5	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Chloroform  
67-66-3 ( 99-99.5 )

WHMIS 2015 Hazard Classification  
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;  
Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.;  
Skin corrosion/irritation - Category 2: H315 Causes skin irritation.;  
Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.;  
Carcinogenicity - Category 2: H351 Suspected of causing cancer.;  
Reproductive Toxicity - Category 2: H361 Suspected of damaging fertility or the unborn child.;  
Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.  
Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.;  
Serious Eye Damage/Eye Irritation - Category 2B: H320 Causes eye irritation.

Ethyl Alcohol 200 proof  
64-17-5 ( 0.5-1 )

**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

### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Chloroform	67-66-3	Present	Not Listed
Ethyl Alcohol 200 proof	64-17-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Chloroform	67-66-3	Not listed
Ethyl Alcohol 200 proof	64-17-5	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Chloroform	67-66-3	Not listed
Ethyl Alcohol 200 proof	64-17-5	Not listed

### EU Classification

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Chloroform	67-66-3	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled.; Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Carcinogenicity - Carc. 2: H351 Suspected of causing cancer.; Reproductive Toxicity - Repr. 2: H361d Suspected of damaging the unborn child.; Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs

**Product code:** SP125

**Product name:** Chloroform,  
Spectrophotometric Grade, ACS,  
stabilized

**Page**

		through prolonged or repeated exposure.602-006-00-4
Ethyl Alcohol 200 proof	64-17-5	Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.603-002-00-5

EU - CLP (1272/2008)

**R-phrase(s)**

R40 - Limited evidence of a carcinogenic effect

R63 - Possible risk of harm to the unborn child

R20/22 - Harmful by inhalation and if swallowed

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

R36/38 - Irritating to eyes and skin

**S -phrase(s)**

S 2 - Keep out of the reach of children.

S36/37 - Wear suitable protective clothing and gloves

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Chloroform	67-66-3	Xn; R20/22-48/20 Xi; R36/38 Carc.Cat.3; R40 Repr.Cat.3; R63	5%<=C Xn; R22 5%<=C Xn; R48/20/22	S: (2)-36/37
Ethyl Alcohol 200 proof	64-17-5	F; R11	No information	S(2) S7 S16

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

**Indication of danger:**

Xn - Harmful

Xi - Irritant

Xn



Xi



**16. OTHER INFORMATION**

Preparation Date: 1/23/2014  
Revision date 1/22/2019  
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,

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**End of Safety Data Sheet**