

SECTION 1: Identification

Product Name Chloroform, ACS Reagent

(Trichloromethane)

Other Identifiers Trichloromethane; Methyl trichloride; 84410-14

Recommended Uses General Laboratory Reagent/Chemical.

Uses Advised Against Not intended for drug, food or household use.

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SECTION 2: Hazard(s) Identification

Acute toxicity Inhalation (Category 3)

Acute toxicity Oral (Category 4)

Carcinogenicity (Category 2)

Serious eye damage/eye irritation (Category 2A)

Reproductive toxicity (Category 2)

Skin corrosion/irritation (Category 2)

Specific target organ toxicity, repeated exposure (Category 1)

Specific target organ toxicity, single exposure (Category 3)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Obtain, read and follow all safety instructions before use. Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and clothing and eye protection. IF SWALLOWED: Get medical help. Rinse mouth. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. IF skin irritation occurs: Get medical help. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. 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 help. IF exposed or concerned, get medical advice. Get medical help if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.





SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Chloroform	67-66-3	200-663-8	99 - 100



SECTION 4: First-Aid Measures

General Advice Show this SDS to attending physician if medical treatment is needed.

Skin Contact Immediately wash affected area with soap and water while removing contaminated clothing . Seek medical attention if there

is any evidence of skin damage or persistent irritation.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek

immediate medical attention.

Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or physician. Ensure that Inhalation

the patient/victim has an unobstructed airway. If shortness of breath occurs or breathing is difficult, administer oxygen. If

breathing has ceased provide artificial respiration. Always use a barrier or bag-valve-mask device. DO NOT GIVE

MOUTH-TO-MOUTH RESPIRATION.

Rinse mouth. Seek medical attention if feeling unwell. Ingestion

Symptoms/effects The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.

Treatment Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry **Extinguishing Media**

chemical, sand/earth, foam).

Specific Hazards Thermal decomposition may produce toxic or irritating fumes.

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the **Actions for Firefighters**

pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures

Precautions and Procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe

areas. Keep people away from and upwind of spill/leak.

Environmental Precautions As with any chemical, avoid release to the environment for the responsible stewardship of our planet.

Containment and Clean Up Contain and absorb with inert absorbent material. Wear respiratory protection, gloves, eye protection and protective

clothing. Sweep up or vacuum up spillage and collect in a suitable lidded container for disposal.

Section 7: Handling and Storage

Handling Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat,

drink, smoke or use personal items when handling this substance. Wear gloves, protective clothing and eye protection when

handling this substance.

Storage Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store

separately from incompatible materials. Store locked up

Section 8: Exposure Controls / Personal Protection

As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling **Engineering Controls**

areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure

limits

Exposure Limits Chloroform PEL-Ceiling 240 mg/m³ US-OSHA

Chloroform REL-STEL 2 ppm (60 minute) US-NIOSH **Exposure Limits**

Chloroform TLV-TWA 10 ppm US-ACGIH **Exposure Limits**

Eve Protection Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.

Skin Protection Wear chemical resistant gloves and protective clothing

Respiratory Protection Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical

fume hood), wear respiratory protection.

Section 9: Physical and Chemical Properties

Physical State Liquid Colorless Appearance/Color

characteristic, pleasant, sweet Odor

Odor Threshold 85 ppm Melting/Freezing Point -63.5°C **Boiling Point/Range** 60.5 - 61.2°C Not flammable Flammability Not applicable Flammable/Explosive Limits Flash Point Not applicable

Auto-Ignition Temperature Not applicable **Decomposition Temperature** Data not available

Data not available 0.563 cP at 25°C Viscosity



Solubility (in water) 8 g/L at 20°C

Partition Coefficient (n-octanol/water) 1.97
Relative Density 1.484

Vapor Pressure 211 hPa at 20°C

Vapor Density 4.36

Evaporation Rate 11.6 (butyl acetate = 1)

Particle Characteristics Not applicable.

Section 10: Stability and Reactivity

Reactivity Can react explosively with alkali metals.

Chemical Stability Stable under normal conditions of handling and storage.

Hazardous Reactions Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.

Conditions to Avoid Avoid contact with incompatible materials.

Incompatible Materials Fluorine, dinitrogen tetraoxide, triisopropylphosphine.

Hazardous Decomposition Thermal decomposition can produce carbon oxides, chlorine, hydrogen chloride.

Section 11: Toxicological Information

Acute Toxicity - Oral LD50 (rat) 695 mg/kg

Acute Toxicity - Dermal LD50 (rabbit) >20000 mg/kg

Acute Toxicity - Inhalation LC50 (rat) 47702 mg/m³/4H

Skin Corrosion/Irritation Causes skin irritation.

Eye Damage/Irritation Can cause serious eye irritation.

Respiratory Sensitization Not expected to cause respiratory sensitization.

Skin Sensitization Not expected to cause skin sensitization.

Germ Cell Mutagenicity Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell

mutagenicity.

Carcinogenicity This substance contains a chemical classified as potentially carcinogenic to humans (IARC: Group 2B; NTP: Reasonably

Anticipated to be Human Carcinogen; OSHA: subpart Z).

Reproductive Toxicity This material may cause harm to breast-fed children.

STOT Single Exposure May cause drowsiness or dizziness.

STOT Repeated Exposure Repeated exposures in animals have caused damage to liver and kidneys. Use as an anesthetic in humans shows delayed

liver damage

Aspiration Hazard This substance is not considered to be an aspiration hazard.

Other Information No additional information available.



Section 12: Ecological Information

Toxicity Values Does not meet the criteria of ecotoxin.

Persistence/Biodegradability

Data is not available for this substance that does not meet the criteria of ecotoxin.

Bioaccumlation Potential

Data is not available for this substance that does not meet the criteria of ecotoxin.

Mobility in Soil

Data is not available for this substance that does not meet the criteria of ecotoxin.

Other Adverse Effects None known.

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

UN Number UN1888

Proper Shipping Name, Hazard Class CHLOROFORM, 6.1

Packing Group

Marine Pollutant Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA On or in compliance with the inventory.

USA SARA 302/304 Chloroform (EHS), TPQ 227 kg (500 lbs) RQ 4.54 kg (10 lbs)

USA SARA 311/312 Chloroform
USA SARA 313 (TRI) Chloroform

Canada DSL/NDSL On or in compliance with DSL.

California Proposition 65 This product contains a chemical on the list.

Section 16: Other Information

Acronyms ACGIH American Conference of Governmental Industrial Hygienists (USA)

ATE Acute Toxicity Estimate (calculated toxicity value)

BCF Bioconcentration Factor

CERCLA Comprehensive Environmental Response, Compensation and Liability Act (USA)

DOT Department of Transportation (USA)
DSL Domestic Substances List (Canada)
EHS Extremely Hazardous Substance

EPA Environmental Protection Agency (United States)

GHS Globally Harmonized System

IARC International Agency for Research on Cancer IDLH Immediately Dangerous to Life and Health NTP National Toxicology Program (USA)

OSHA Occupational Safety and Health Administration (USA)

PEL Permissible Exposure Limit

PNOR Particulates Not Otherwise Classified PPE Personal Protective Equipment

ppb Parts per billion ppm Parts per million RQ Reportable Quantity

SARA Superfund Amendments and Reauthorization Act (USA)

TLV Threshold Limit Value
TPQ Threshold Planning Quantity
TRI Toxic Release Inventory (USA)
TSCA Toxic Substances Control Act (USA)

TWA Time Weighted Average

UN United Nations

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: product safety department Contact: SPEX CertiPrep, LLC. 1-732-549-7144