

SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: TRICHLOROETHYLENE
Control Number: 00249(R)
Product Description: Chlorinated Hydrocarbon

COMPANY IDENTIFICATION

Supplier: COLONIAL CHEMICAL SOLUTIONS, INC.
916 West Lathrop Avenue
Savannah, Georgia 31415

24 Hour Emergency Telephone: (800)-424-9300 CHEMTREC
General Information: (912) 236-1331

SECTION 2- HAZARDS IDENTIFICATION

GHS Classification:

[Health]

Skin irritation Category 2
Eye irritation Category 2A

[Environmental]

Acute Aquatic Toxicity Category 3
Chronic aquatic toxicity Category 3

[Physical]

Carcinogenicity Category 1B

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Trichloroethylene	79-01-6	100

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical advice/ attention if irritation occurs.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash with soap and water. Get medical advice/ attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: For small fires, use alcohol foam, dry chemical, or carbon dioxide. For large fires use very large quantities of water applied as a mist or spray. Cool all affected containers with flooding quantities of water.

Hazardous combustion products: At high temperatures PCE decomposes to give off hydrochloric acid as gas plus other toxic and irritating vapors such as phosgene.

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

Unusual Fire and Explosion Hazards: Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may rupture or explode in the heat of a fire.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for Disposal.

SECTION 7 · STORAGE AND HANDLING

Handling: Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin or eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Containers which are opened must be carefully resealed.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

Exposure Limits: Trichloroethylene 10 ppm ACGIH 100 ppm OSHS

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: No available data

Autoignition Temperature: 770 °F

Boiling Point: 188 °F

Melting/Freezing Point: -121 °F

Vapor Pressure: 61 mmHg

Vapor Density (Air-1): No available data

Odor/Appearance: Clear liquid with ethereal odor.

Flammability Limits: Lower: 8 Upper: 11

Specific Gravity: 1.46

Volatile %: No available data

Evaporation Rate (BuAc=1): No available data

pH: Not Applicable

Solubility in Water: No available data

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Pure oxygen, strong oxidizers, alkali metals, open flames, and electrical arcs. PCE reacts violently with concentrated nitric acid.

Incompatible materials: Strong oxidizing agents and strong bases.

Decomposition Products: When combusted, carbon oxides, hydrogen chloride gas, hydrogen chloride.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Skin: Material is irritating to the skin. Exposure may also cause dermatitis due to defatting.

Eyes: Material (including vapors) will cause eye irritation. More serious effects may result if exposure is prolonged or not treated.

Inhalation: Vapors are irritating to the upper respiratory tract. Prolonged or exposure to high concentrations may be harmful and cause adverse effects including labored breathing and drowsiness.

Ingestion: Ingestion may cause vomiting. During vomiting the material may be aspirated into the lungs which may result in aspiration pneumonia.

Acute oral toxicity:

LD50 rat: 4,920 mg/kg

Acute inhalation toxicity:

LC50 rat: 8,450 ppm 4h

Acute dermal toxicity:

LD50 rabbit: > 20,000 mg/kg

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SECTION 12 · ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h

Bioaccumulation: Does not bioaccumulate.

Mobility: Accidental spillage may lead to penetration in the soil.

SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 · TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Trichloroethylene

Hazard Class: 6.1

UN Number: 1710

Packaging Group: 3

SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 100 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has not been established.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

Trichloroethylene (CAS 79-01-6) is listed under TSCA Section 5A, Significant New Use Rule (SNUR). FINAL RULE effective 06/07/2016. See 40 C.F.R. Parts 9 and 721 (EPA-HQ-OPPT-2014-0697; FRL-9943-83) -- 1,1,2-Trichloroethylene, Trichloroethene, TCE, Ethylene trichloride, Acetylene trichloride. For further information Contact : TSCA-Hotline@epa.gov or 202-554-1404.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard, Chronic Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: The following components are subject to reporting levels established by SARA Title III, Section 313: Trichloroethylene

Clean Water Act: This product contains Trichloroethylene a chemical listed as Hazardous Substances under the CWA.

Clean Air Act: This product contains Trichloroethylene a chemical listed as Hazardous Substances under the CAA.

California Prop 65: This product contains Trichloroethylene a chemical known by the State of California to cause cancer, birth defects or other reproductive harm.

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SECTION 16 - OTHER INFORMATION

MSDS Revision Date: January 2015

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 2

Flammability: 0

Reactivity: 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.