SAFETY DATA SHEET

CHEMICAL DISTRIBUTION SOLUTIONS

SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: PERCHLOROETHYLENE
Control Number: 00199
Product Description: Chlorinated Hydrocarbon

COMPANY IDENTIFICATION

Supplier: **Chemical Distribution Solutions**
1125 Oak St. Ste. 303
Conway, AR 72032

24 Hour Emergency Telephone: (800) 424-9300 CHEMTREC
General Information: (501) 978-1111

SECTION 2· HAZARDS IDENTIFICATION

GHS Classification:

[Health]
Skin irritation Category 2

[Environmental]
Acute Aquatic Toxicity Category 2
Chronic aquatic toxicity Category 2

[Physical]
Carcinogenicity Category 2

GHS Label elements, including precautionary statements

Pictograms

Signal Word: Warning

Hazard statement(s)
H315 Causes skin irritation.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Tetrachloroethylene	127-18-4	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 attention if irritation occurs.
Skin Contact: In case of contact flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical 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.
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

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV.

SECTION 7 · STORAGE AND HANDLING

Handling: Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. 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.

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:	Tetrachloroethylene	25 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: No available data
Boiling Point: 250 ^{O}F
Melting/Freezing Point: -8 ^{O}F
Vapor Pressure: 19 mmHg
Vapor Density (Air-1): 5.7
Odor/Appearance: Clear liquid with ethereal odor.

Flammability Limits: No available data
Specific Gravity: 1.62
Volatile %: 100
Evaporation Rate (BuAc=1): 0.33
pH: Not Applicable
Solubility in Water: 0.015 g/100 ml

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 · TOXILOGICAL INFORMATION

Signs and Symptoms of Overexposure:
Skin: Material is irritating to the skin. Exposure may also cause dermatitis due to defating.
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: 2,629 mg/kg
Acute inhalation toxicity:
LC50 rat: 34,200 mg/m3 8h
Acute dermal toxicity:
LD50 rabbit: 5,000 mg/kg

SECTION 12 · ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 9.8 mg/l - 96.0 h
Bio-accumulative potential: No available data.
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: Tetrachloroethylene
Hazard Class: 6.1
UN Number: 1897
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.

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: Tetrachloroethylene

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

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

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

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: 1
Flammability: 0
Reactivity: 0

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.