



# Safety Data Sheet

Better Chemistry. Better Business

## HUBTRON HDS

Revised: 8/20/21

### 1 IDENTIFICATION

Product Name: HUBTRON HDS

Product Code :0321601

Recommended use of the chemical and restrictions on use:Solvent

#### Hubbard-Hall Inc.

563 South Leonard Street

Waterbury, CT 06708

Telephone: 203-756-5521

Fax number: 203-756-9017

Emergency Phone Number

CHEMTREC: 1 (800) 424-9300

International: 1 (703) 527-3887

### 2 HAZARDS IDENTIFICATION

**Hazard Category:** Chronic Aquatic Toxicity- Category 3

**Hazard Statements:** Harmful to aquatic life with long lasting effects

**Prevention:** Avoid releases to the environment

**Disposal:** Dispose of contents/container in accordance with local, regional, national, or international regulations.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
1,1,1,2,2,3,4,4,5,5,5-decafluoropentane	-	138495-42-8	30-60%
trans-Dichloroethylene	-	156-60-5	30-60%
Pentafluorobutane	-	406-58-6	10-30%

### 4 FIRST AID

#### After Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### After Skin Contact:

If on skin(on hair): Take off immediately all contaminated clothing. Rinse with water/safety shower. Call doctor if irritation persists.

#### After Eye Contact:

If in eyes: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritated, call doctor.

**After Ingestion:**

Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that the stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

**Most Important Symptoms/Effects**

**Inhalation:**

Breathing of vapor or mist is possible. Breathing this materail may be harmful. Symptons are not expected at air concentrations below the recommended exposure limits(see section 8). It is possible to breath this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Causes respiratory tract irritation. Harmful if inhaled. Inhalation may cause central nervous system effects.

**Eye:**

Irritation of eyes and skin.

**Skin:**

This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptons include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation(dermatitis).

**Ingestion:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Indication of immediate medical attention:**

Provide general supportive measures and treat symptomatically. Symptons may be delayed. Keep victim under observation.

**5 FIRE FIGHTING MEASURES**

<b>Suitable and Unsuitable extinguishing media:</b>	Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as dry chemical, foam or carbon dioxide.
<b>Specific hazards arising from the chemical:</b>	Carbon oxides may be produced.  Containers may burst violently or explode when heated, due to excessive pressure build up
<b>Special protective equipment and precautions for firefighter</b>	Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

**6 ACCIDENTAL RELEASE MEASURES**

<b>Methods and Materials for containment &amp; cleaning up:</b>	Stop spill at source.  If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.  Absorb the chemical onto sand, vermiculite, or any other non-combustible absorbent, and collect into containers for later disposal.
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**7 HANDLING AND STORAGE**

<b>Precautions for safe handling:</b>	Wash hands thoroughly after handling.  Wear rubber gloves, goggles and chemical protective clothing.  Eating, drinking and smoking in the work area is prohibited.
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Conditions for safe storage,  
inc any incompatibilities:

Keep container tightly closed.

Store in well ventilated place. Keep container tightly closed.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
1,1,1,2,2,3,4,5,5,5-Decafluoropentane	Dupont	200 ppm	400 ppm
trans-Dichloroethylene	ACGIH	200 ppm	-
1,1,1,3,3-Pentafluorobutane	-	1000 ppm (SUP)	-

ACGIH - American Control of Governmental Hygenists

OSHA - Occupational Safety and Health Administration

**Other:** Safety shower in work area.

**Protective Gloves:** Rubber gloves

**Eye Protection:** Wear chemical safety goggles.

**Other Protective Equipment:** Use gloves when contact with product may occur. Viton, laminate film, PVA, or Silvershield gloves offer the best protection. DO NOT use natural rubber gloves when handling this product. Nitrile, neoprene or butyl gloves offer less protection and should be used for splash protection only.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear colorless liquid

**Odor:** Slight ether odor

**Odor Threshold:** N/A

**PH:** 4-7

**Melting Point/Freezing Point:** N/A

**Initial Boiling Point and Boiling Range:** 99 °F estimated

**Flash Point:** None

**Evaporation Rate:** 0.87 (Butyl Acetate=1)

**Flammability (solid, gas):** N/A

**Upper/Lower flammability or explosive limits:** 7.5-9.0

**Vapor Pressure:** 5.5 PSIA @ 20 °C

**Vapor Density:** 4.0 (Air = 1)

**Relative Density:** 1.37

**Solubility (ies):** not soluble

**Partition Coefficient; n-octanol/water:** N/A

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

**Viscosity:** N/A

## 10 STABILITY AND REACTIVITY

**Reactivity:** Hazardous Polymerization will not occur.

**Chemical Stability:** Stable under normal conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.  
**Incompatible Materials:** Will react with alkali

## 11 TOXICOLOGICAL INFORMATION

**Oral Administration:** 1,1,1,2,3,4,4,5,5,5-decafluoropentane LD50(rat)->5000 mg/kg  
**Oral Administration:** trans-dichloroethylene LD50(rat)-7902 mg/kg  
**Oral Administration:** Pentafluorobutane-LD50(Rat)->2000 mg/kg  
**Inhalation:** 1,1,1,2,2,4,4,5,5,5-decafluoropentane LC50(Rat)- 114 mg/L  
**Inhalation:** trans-dichloroethylene LC50(rat)-24,100 ppm  
**Inhalation:** pentafluorobutane LC50(Rat)100,000 ppm  
**Dermal administration:** 1,1,1,2,2,3,4,5,5,5-decafluoropentane LD50(Rat)-5000 mg/kg  
**Immediate effects:** Irritation/ burns of skin and eyes.  
**Cancer Hazard:** Not listed by IARC, NTP, OSHA, ACGIH  
**Routes of Exposure** Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

**Fish, Lepomis macrochirus,** trans-dichloroethylene LC50 74 mg/L 96 h  
**Daphnia Magna,** trans-dichloroethylene LC50 - 79 mg/L 48 h  
**Persistence and Degradability:** Does not readily biodegrade  
**Biotic degradability:** No data available  
**Bioaccumulation potential:** Unlikely  
**Water result:** Disperses in water.  
**Soil/Sediment Result:** No data available

## 13 DISPOSAL CONSIDERATION

*Dispose of in accordance with local, state and federal regulations.*

## 14 TRANSPORT INFORMATION

**UN Proper Shipping Name:** NOT D.O.T. REGULATED

## 15 REGULATORY INFORMATION

**HMIS: Health: 1 Flammability: 0 Reactivity: 1**

**Cercla** trans-1,2-dichloroethylene 1000 lbs RQ

**Sara Hazard Classification** The chemicals in this product are not subject to SARA Title III, Section 313 Reporting Requirements.

**Proposition 65** No Proposition 65 listed components in this formula

**TSCA Inventory Status** All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements .

## 16 OTHER INFORMATION

**Disclaimer:** The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.