



MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name: Dust away 92
Chemical names, common names: Tetrafluoroethane.
Manufacturer's Name: HURST CHEMICAL COMPANY.
Address: 2500 San Fernando Road, Los Angeles, CA 90065
DOT CLASSIFICATION: Consumer Commodity, ORM-D
IATA & IMDG: 1,1,1,2-Tetrafluoroethane , UN 3159, Class 2.2
Product Information Phone Number: (323) 223-4121
FOR EMERGENCY, 24 Hour CALL CHEMTREC: 800 424-9300

II. HAZARDOUS INGREDIENTS

<u>Chemical Names</u>	<u>CAS Number</u>	<u>Exposure Limits in Air</u>	
		<u>ACGIH (TWA)</u>	<u>OSHA (PEL)</u>
Tetrafluoroethane*	811-97-2	NA	NA

* Dupont manufacture recommended an AEL of 1000ppm.
AEL : Acceptable exposure Limit

Section IIA - This product contains the following chemicals subject to reporting requirements of SARA 313 and 40 CFR 372.

<u>Listed Ingredients</u>	<u>CAS Number</u>	<u>Weight % Range</u>
none	none	none

III. PHYSICAL PROPERTIES

<u>Vapor density (air = 1):</u> 3.18 @77F	<u>Specific Gravity:</u> 1.21	<u>Density lb/gal:</u> 10.08
<u>Solubility in water:</u> 67mg/L @77F	<u>Vapor Pressure(psig):</u> 4730 mm Hg @ 77F	
<u>Evaporation rate (Bu Ac = 1):</u> >1.0	<u>Boiling Range °F:</u> -15.7F	

Appearance and odor: Clear , colorless liquified gas.

IV. FIRE AND EXPLOSION

	HAZARD RANKING		
HMIS	Health Hazard=1	0=Least	4=Extreme
HAZARD	Flammability=0	1=Slight	
CLASS	Reactivity= 1	2=Moderate	
	Other= Safety glasses and gloves	3 = High	

Flash Point °F: non to boiling (TCC)

LEL /UEL: non flammable.

Fire extinguishing materials: use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Special firefighting procedures: as in any fire, wear self-contained breathing apparatus (pressure-demand,NIOSH approved or equivalent) and full protective gear.

Unusual fire and explosion hazards: Containers may vent or burst at temperatures above 130oF. Do not spray near open flame or while smoking.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE -

Inhaled:harmful if inhaled, high concentrations of vapors in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

Contact with skin or eyes: Irritation of eyes and skin and may cause frostbite.

Swallowed: unlikely to to the volatile nature of the product, contact with liquid may cause frosbite to mouth and throat tissues.

HEALTH EFFECTS OR RISKS FROM EXPOSURE -

Acute: NA
Chronic:NA

TOXICOLOGICAL INFORMATION:

Inhalation: rats ; 567,000ppm / 4 hrs

FIRST AID: EMERGENCY PROCEDURES -

Eye contact: Flush eyes immediately with water for at least 15 minutes and get medical attention.

Skin contact: Wash promptly with soap and water, get medical attention if irritation persists, treat for possible frostbite.

Inhaled: Remove from exposure to fresh air, give oxygen if difficulty breathing. get medical attention immediately.

Swallowed: if swallowing less than an ounce will not cause significant harm, for large amounts :DO NOT INDUCE VOMITTING, get medical attention.

COMMENTS/ CANCER INFORMATION: no ingredients listed as human carcinogens by NTP or IARC.

TOXIC SUBSTANCES CONTROL ACT (TSCA): Ingredients of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

VI. REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage.

Incompatibility (materials to avoid): Strong oxidizers, alkali and alkaline earth metals .

Avoid spray near open flames, red hot surfaces or other sources of ignitions.

Hazardous decomposition products (including combustion products):

Thermal decomposition may release hydrofluoric acid vapors.

Hazardous polymerization: will not occur.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures: Eliminate ignition sources. Contain spills for salvage or disposal.. Avoid run off into sewers and ditches. wear self-contained breathing apparatus for large spills. Use inert material to absorb spill (dry sand).

Preparing wastes for disposal: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Local exhaust may be necessary to control any air contaminants to within the TLV's.

Respiratory Protection: If exposure may exceed occupational exposure, use a NIOSH-approved respirator to prevent overexposure.

Eye Protection: Use chemical safety goggles where liquid splashes are expected.

Gloves: Prevent repeated or prolonged skin contact by using chemical resistant gloves.

Other clothing and equipment: Eye wash and quick drench shower facilities should be available in the work area.

Thoroughly clean shoes and wash contaminated clothing before reuse.

OTHER HANDLING AND STORAGE REQUIREMENTS:

Store in original containers in a cool dry location, safe from physical damage, with containers tightly closed. Do not expose to direct sunlight or store at temperatures above 130f(54C). Store as level 1 aerosol (NFPA 30B). local exhaust should be used if large amounts released.

HURST CHEMICAL COMPANY furnishes Material Safety Data Sheets based upon information from raw material suppliers. This information is provided in compliance with Federal Regulation 29CFR 1910.

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