

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Address:
8125 Cobb Center Drive
Marietta, GA 30152

Product Information: 800-TECH-401
Customer Service 800-645-5244

Emergency: (Chemtec) 800-424-9300
Revision Date: February 23, 1996
Prepared by: Gwen Cottrell

Product Identification

No Flash Cleaner/Degreaser

Product Code: CV2216

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt. % Range
Isohexane, a mixture of:		
2-methylpentane	107-83-5	0.1-5.0
3-methylpentane	96-14-0	0.1-5.0
2,3-Dimethylbutane	79-29-8	0.1-5.0
2,2-Dimethylbutane	75-83-2	0.1-5.0
1,1-Dichloro-1-fluoroethane	1717-00-6	89.0-99.0
Carbon dioxide	124-38-9	1.0-10.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, colorless liquid with faint ethereal odor. This product is not flammable. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product may produce drowsiness and a headache.

Potential Health Effects:

Eyes: Liquid, aerosols and vapors of this product are irritating to the eyes.

Skin: Contact may cause drying of the skin.

Ingestion: Harmful if swallowed. Irritating to the mouth, throat and stomach.

Inhalation: Harmful if inhaled. High concentrations in immediate area can displace oxygen and cause drowsiness, unconsciousness, respiratory depression and even death due to asphyxiation with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

Aggravated by Exposure: Heart, lung, skin, eye. **Pre-Existing Medical Conditions:**

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

Ingestion: Small amounts of product not normally considered hazardous by ingestion. If large quantities ingested, do not induce vomiting. Get Medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None to boiling **LEL/UEL:** 1.2-15.5 (% by volume in air)

Extinguishing Media: Use dry chemical, carbon dioxide, water stream, or water spray or fog when fighting fires involving this material.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (i.e. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways. **Small Spills:** Absorb spill with inert material (i.e. dry sand or earth), then place in a chemical waste container for proper disposal.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames. Keep container tightly closed when not in use. Do not store in direct sunlight. **KEEP OUT OF REACH OF CHILDREN.**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (All values listed are from the ACGIH Guide to Occupational Exposure Values - 1994)

Exposure Guidelines:

CHEMICAL NAME	ACGIH TWA	OSHA PEL	OSHA STEL
2-methylpentane	NA	NA	NA
3-methylpentane	NA	NA	NA
2,3-Dimethylbutane	NA	NA	NA
2,2-Dimethylbutane	500 ppm	500 ppm	NA
1,1-Dichloro-1-fluoroethane	NA	NA	NA
Carbon dioxide	5000ppm	10000ppm	30000ppm

Work/Hygiene Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. This material does not have established exposure limits. Wear a positive pressure, air-supplied respirator in situations where there may be a potential for airborne exposure. Wear safety glasses with side shields, goggles or a full face shield. Wear rubber or other chemically resistant gloves when handling this material.

NFPA and HMIS Codes:

	NFPA	HMIS
Health	2	2
Flammability	0	0
Reactivity	1	1
Personal Protection	-	B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless liquid
Odor: Mild ethereal
pH: NA
Vapor Pressure: 10 psia @ 68F (1,1-Dichloro-1-fluoroethane) (Air 1)
Vapor Density: 4 (1,1-Dichloro-1-fluoroethane) (Air 1)

Solubility in Water: Negligible
Specific Gravity: 1.2 @ 68F
Evaporation Rate: >1 (Butyl acetate=1)
Viscosity: Not established (Water=1)
Percent Volatile: 100

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable. Conditions to Avoid: Do not spray near open flames, red hot surfaces or other sources of ignition
Incompatibility: Chemically active metals such as sodium, potassium, calcium, powdered aluminum, zinc, magnesium and lithium shavings; granular barium.
Products of Decomposition: May decompose to hydrogen chloride and hydrogen fluoride at temperatures above 600°F.
Hazardous Polymerization: Will not occur. Conditions to avoid: NA

SECTION 11: TOXICOLOGICAL INFORMATION

(NIOSH RTECS through July 1995)

Inhalation:

1,1-Dichloro-1-fluoroethane* LC50 mouse 151 gm/m³/2H
 Isohexane LC50 Albino rats > 3125 ppm
 Carbon Dioxide LC50 Human 9pph/5M

Ingestion:

1,1-Dichloro-1-fluoroethane* LD50 rats > 5 gm/kg

*Information provided by manufacturer.
 Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

SECTION 12: ECOLOGICAL INFORMATION

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: 1-800-424-8802

Environmental Impact Data
(percent by weight)

CFC	0.0%	VOC	2.0%
HCFC	94.0%	HFC	0.0%
Cl. Solv.	0.0%	ODP	0.10

For more information call: 1-800-645-5244

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

SECTION 14: TRANSPORTATION INFORMATION

Proper Shipping Name	UN Number	Class	Sub Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
Air: Aerosols non-flammable n.o.s.	UN 1950	2.2	NA	NA	Non-flammable Gas	203	75 k.g. 150k.g.
Ground: Consumer Commodity	ORM-D	NA		ORM-D	NA	NA	Pkg Auth. 173.306

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372). This information should be included on all MSDSs copied and distributed for this material.
 Product contains no Section 313 Listed Chemicals.

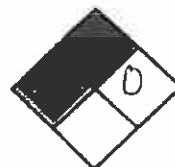
TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients of this product are listed on the TSCA inventory.

SECTION 16: OTHER INFORMATION

Product is a Level 3 aerosol. Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

REFERENCES: 29 CFR 1910.1200 40 CFR 300-700 ANSI Z400 1-1993
 NIOSH RTECS provided by CHEM-BANK by SILVERPLATTER
 Guide to Occupational Exposure Values 1994

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.



Methyl pentane
 Chemical Name
 No Flash Cleaner/Degreaser
 Common Name
 Chemtronics, Inc
 Manufacturer