



# CC-44

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard (29CFR 1910.1200)

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### SECTION I – PRODUCT IDENTIFICATION

Product Name:	<b>CC-44 (Aerosol)</b>	Proper Shipping Name:	<b>CONSUMER COMMODITY</b>
Product Number:	<b>1630</b>	Date Prepared:	<b>02/22/2006</b>
Product Description:	<b>Contact Cleaner &amp; Degreaser</b>	Prepared By:	<b>Paul Williams</b>
Information Phone:	<b>(800) 334-7071</b>	24-Hour Emergency Phone:	<b>(800) 255-3924</b>

### NFPA – HMIS CODES

Health	<b>1</b>	Flammability	<b>1</b>	Corrosive	<b>0</b>	Reactivity	<b>0</b>	Personal Protection	<b>B</b>
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### SECTION II – MATERIAL IDENTIFICATION AND INFORMATION

Description	CAS #	313-Chem	PEL	TWA/TLV	AEL/TWA*	Wt %
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0	YES	N/E	N/E	50 ppm	60-70
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1	YES	N/E	N/E	400 ppm	01/10
1,1,1,2-Tetrafluoroethane	811-97-2	NO	N/E	N/E	1000 ppm	20-40

\*AEL/TWA – Acceptable Exposure Limit (8h-TWA) Established by Manufacturer.

### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

*Boiling Point	~ 124°F	Evaporation Rate (n-Bu-Ac=1.0)	N/A
Vapor Pressure of Can (psig @ 70°F)	55	*Water Solubility (Wt % @ 25°C)	0.040
*Vapor Density (Air=1.0 @ 77°F)	7.0	Molecular Weight, Avg.	N/A
*Specific Gravity (H2O=1 @ 77°F)	1.55	Viscosity, Typical (cp)	N/A
VOC (Grams/Liter @ 25°C – EPA Method 24)	N/A	*Appearance	Clear Colorless Liquid
% Volatile by Volume	N/A	*Odor	Faint Ether-Like Odor
Total VOC % (Volatile Organic Compounds)	0	*pH	N/A

\*Data Based on Aerosol Concentrate Only.

### SECTION IV – FIRE & EXPLOSION HAZARD DATA

Flash Point (Of Concentrate Only)	None (TCC)
Auto Ignition Temperatures	N/A
Flammability Limits in Air	
Lower Explosive Limit Estimated	N/A
Upper Explosive Limit Estimated	N/A
Extinguishing Media	Foam, CO2, Dry Media
Unusual Fire Fighting Procedures	Exposure to temperatures above 120°F may cause bursting.
Special Fire Fighting Procedures	Wear self-contained breathing apparatus and protective clothing. Cool fire-exposed containers to prevent rupturing.
Flammability (as per USA Flame Projection Test)	Non-Flammable Spray



**SECTION V – HEALTH HAZARD DATA & EMERGENCY FIRST AID PROCEDURES**

ENTRY ROUTES	ADVERSE/CHRONIC EFFECTS	FIRST AID PROCEDURES
<b>EYES</b>	May cause moderate to severe irritation and frostbite.	In case of contact, immediately flush with large amounts of lukewarm water for at least 15 minutes while holding upper and lower lids open. Get medical attention.
<b>INGESTION</b>	Not likely to occur because of the physical properties of the product. Ingestion of small amounts is not likely to be hazardous. Ingestion of large quantities would likely cause gastrointestinal discomfort from excess pressure created by evaporation and may result in irritation of the upper gastrointestinal tract.	Ingestion is not likely to occur. If it does, DO NOT INDUCE VOMITING. Get medical attention.
<b>INHALATION</b>	Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, liver damage, unconsciousness, or death. Intentional misuse can be fatal. Vapors are heavier than air and may accumulate in low lying or confined areas reducing oxygen available for breathing.	Immediately remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>SKIN</b>	May cause frostbite and irritation from defatting of skin. May aggravate existing skin conditions.	In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Treat for frostbite if necessary by gently warming affected area. If irritation persists, get medical attention.
<b>MEDICAL CONDITIONS TO AVOID</b>	Pre-Existing skin conditions.	
<b>NOTE TO PHYSICIAN:</b>	Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution and only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.	

**SECTION VI – REACTIVITY DATA**

<b>STABILITY</b>	Stable – Avoid open flames and exposure to high temperatures.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur – No conditions known
<b>INCOMPATIBILITY</b>	Incompatible with alkali or alkaline earth metals – powdered Al, Zn, Be, etc.
<b>HAZARDOUS DECOMPOSITION</b>	Hydrochloric and Hydrofluoric acids, carbonyl halides, carbon dioxide, carbon monoxide.

**SECTION VII – PRECAUTIONS FOR SAFE HANDLING & USE**

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b> – Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.	
<b>WASTE DISPOSAL</b>	Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.
<b>HANDLING &amp; STORAGE</b>	Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F.
<b>NFPA Code 30B Rating</b>	Level 1 Aerosol
<b>OTHER PRECAUTIONS</b>	KEEP OUT OF REACH OF CHILDREN – For Industrial/Institutional Use Only. Read and follow label directions.

**SECTION VIII – CONTROL MEASURES**

<b>RESPIRATORY PROTECTION</b>	None needed for proper use in accordance with label directions.
<b>VENTILATION</b>	Provide local exhaust to keep air concentration of ingredients listed in Section II below established exposure limits.
<b>PROTECTIVE GLOVES</b>	Use chemical resistant gloves (neoprene preferred) to help prevent skin contact.
<b>EYE PROTECTION</b>	Wear chemical resistant safety glasses or splash goggles.
<b>OTHER PROTECTIVE CLOTHING/EQUIPMENT</b>	None needed for proper use in accordance with label directions.
<b>WORK HYGIENIC PRACTICES</b>	Employees must practice good personal hygiene; washing exposed areas of skin several times daily and before eating, drinking, smoking, using restroom and at end of work period. Remove contaminated clothing and launder before reuse.

**SECTION IX – TRANSPORTATION DATA**

<b>PROPER SHIPPING NAME</b>	CONSUMER COMMODITY
<b>DOT ID NUMBER</b>	N/A
<b>DOT HAZARD CLASS</b>	ORM-D

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