



## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES  
24 Hour INFOTRAC (US and CANADA): **800-535-5053**

**PRODUCT NAME**  
UNITED 174 CONTACT CLEANER

**USE/DESCRIPTION**  
Aerosol Contact Cleaner

**REVISION DATE**  
November 7, 2011

#### HMIS III HEALTH (0 = Maximum Safety) 1

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

#### PHYSICAL HAZARD (0 = Maximum Safety) 0

Susceptible to Release of Energy.

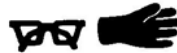
4 May detonate-vacate area if materials are exposed to fire.	2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	1 Unstable if heated-use precaution.
	0 Normally stable.

#### FLAMMABILITY (0 = Maximum Safety) 1

Susceptibility of Material to Burning.

4 Extremely flammable.	1 Must be preheated
3 Ignites at normal temperature.	to burn.
2 Ignites when moderately heated.	0 Will not burn.

**PERSONAL PROTECTION: B**



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	AEL/TWA* (8h/TWA)	LD50 (Species/Route)
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0	60 - 70	NE	NE	50 ppm	NE
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1	1 - 10	NE	NE	400 ppm	NE
1,1,1,2-Tetrafluoethane	811-97-2	20 - 40	NE	NE	1000 ppm	NE

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

### 3. HAZARDS IDENTIFICATION

**Eyes:** May cause moderate to severe irritation and frostbite effects.

**Skin:** Frequent or prolonged contact may cause frostbite effects and irritation from defatting of skin. May aggravate existing skin conditions.

**Inhalation:** A high concentration of vapor is harmful and may cause heart irregularities, liver damage, unconsciousness, or death. Intentional misuse or deliberate inhalation may cause death without warning.

**Ingestion:** Not likely to occur because of the physical properties of the product. Ingestion of large quantities can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

### 4. FIRST AID MEASURES

**Eyes:** Flush with plenty of water for 15 minutes lifting upper and lower lids. Get medical attention.

**Skin:** Flush with plenty of water for 15 minutes. Remove contaminated clothes and wash before reuse. If irritation persists, call a physician.

**Inhalation:** Remove patient to fresh air. Apply artificial respiration if needed. Call a physician immediately.

**Ingestion:** Ingestion is not likely to occur. If it does, **do not** induce vomiting. Get medical attention.

**Note to Physician:** Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution in situations of emergency life support.

### 5. FIRE FIGHTING MEASURES

**Flash Point (TCC):** None (of Concentrate only)

**Explosive Limits:** Lower (LEL): ND Upper (UEL): ND

**Flame Projection (Aerosol):** Non-Flammable spray per 16 CFR 1500.3 and 1500.45.

**Hazardous Products of Combustion:** When strongly heated, as in a fire, this product may produce oxides of carbon, hydrochloric and hydrofluoric acids, and carbonyl halides.

**Fire and Explosion Hazards:** Contents under pressure. Exposure to temperatures above 120°F/48°C may cause container to burst.

**Extinguishing Media:** Foam, Carbon dioxide, Dry chemical.

**Fire Fighting Instructions:** Wear self-contained breathing apparatus w/full protective clothing in chemical fires. Cool fire exposed containers to prevent rupturing.

### 6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Allow propellant to evaporate. Remove sources of ignition and ventilate area. Soak up with an inert absorbent and place in designated disposal container.

**Large Spills:** Allow propellant to evaporate. Remove sources of ignition and ventilate area. Soak up with an inert absorbent and place in designated disposal container.

## 7. HANDLING AND STORAGE

Keep this product properly labeled and store in a cool, well-ventilated area away from heat or other sources of ignition. Do not expose to direct sunlight or store at temperatures above 120°F/48°C. NFPA Code 30B storage level 1 aerosol.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses are recommended or splash goggles.

**Skin:** Chemical resistant gloves if hand contact will be made.

**Respiratory:** None needed for proper use in accordance with label directions. If vapor concentration exceeds TLV, use a NIOSH or MSHA approved respirator.

**Engineering Controls:** Provide adequate ventilation to keep vapor concentration below TLV and prevent accumulation of excessive vapors.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** -124°F/ -86.6°C **Specific Gravity:** 1.55 @ 75°F/23.8°C **Vapor Pressure:** 55 (psig @ 70°F/21°C **Melting Point:** NA  
**Vapor Density:** 7.0 @77°F/25C (air=1) **Evaporation Rate:** NA **Solubility in Water:** Slightly soluble **pH:** N/A  
**Appearance and Odor:** Aerosol; Clear colorless liquid with ether-like odor.

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** When strongly heated, as in a fire, this product may produce oxides of carbon, hydrochloric and hydrofluoric acids, and carbonyl halides.

**Chemical Stability:** Stable

**Incompatibility:** Avoid contact with strong oxidizing agents, alkalis, earth metals, powdered Al, Zn, Be, etc.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity (NTP/IARC/OSHA):** None

**California Proposition 65:** Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

## 12. ECOLOGICAL INFORMATION

ND

## 13. DISPOSAL CONSIDERATIONS

Consult your local, state, and federal regulations for proper disposal guidelines. Do not puncture or incinerate containers. Disposal regulations may be different for each state and/or locality.

## 14. TRANSPORT INFORMATION

**DOT:** Available upon request

**TDG:** Available upon request

**UN:** Available upon request

## 15. REGULATORY INFORMATION

**VOC(Volatile Organic Compounds):** None

**TSCA (Toxic Substances Control Act):** Listed

**SARA Title III Section 302 EHS:** ND

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** 2,2-Dichloro-1,1,1,2,2-pentafluoropropane CAS#422-56-0, 1,3-Dichloro-1,1,2,2,3-pentafluoropropane CAS# 507-55-1

**WHMIS Classification:**

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 174 CONTACT CLEANER

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