

# MATERIAL SAFETY DATA SHEET

## Section 1: Product & Company Identification

**Product Name:** Aerosol Buffing Solution

**Product Number (s):** 14-102

Manufactured For: 31 Incorporated  
Newcomerstown, OH 43832 USA

**24-Hour Emergency Information: CHEM•TEL INC. (800) 255-3924**

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## Section 2: Composition/Information on Ingredients

| Component                          | CAS<br>NUMBER | ACGIH<br>TLV | OSHA<br>PEL | OTHER<br>LIMITS | %     |
|------------------------------------|---------------|--------------|-------------|-----------------|-------|
| 1,1 Dichloro-1-Fluoroethane (HCFC) | 1717-00-6     | 50 ppm       | 25 ppm      | NE              | 50-99 |
| Carbon Dioxide                     | 124-38-9      | 5000 ppm     | 10000 ppm   | NE              | 1-3   |

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## Section 3: Hazards Identification

### Emergency Overview

Appearance & Odor: Colorless liquid, strong odor at high concentration.

Danger: Vapor Harmful. Harmful or Fatal if Swallowed. Contents Under Pressure.

### Potential Health Effects:

Inhalation: Headaches, dizziness, loss of concentration.

Eyes: Irritation

Skin: Irritation

Ingestion: Discomfort

Carcinogenicity: OSHA: Yes IARC: Yes NTP: Yes  
Chronic Overexposure: Repeated overexposures have caused liver and kidney effects in laboratory animals.

Medical Conditions Aggravated by Exposure: High levels (10000+ ppm) of vapor may cause cardiac sensitization.

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## Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if necessary.

Eyes: Flush with large amounts of water for 15 minutes.

Skin: Remove contaminated clothing and wash area with soap and water.

Ingestion: Call a physician. Do not induce vomiting.

**Section 5: Fire-Fighting Measures**

Flashpoint: None Method: TCC, TOC, COC LEL: ND UEL: ND  
 Extinguishing Media: Water fog spray  
 Hazardous Combustion Products: Product will decompose at 482° F. Include hydrochloric and hydrofluoric acids and carbonyl halides such as phosgene.

Fire-fighting Instructions: Remove containers from fire area if possible. Use self-contained breathing apparatus for fire fighting. Aerosol cans may explode if heated above 120°F.

NFPA: Health: 2 Flammability: 1 Reactivity: 0  
 HMIS: Health: 2 Flammability: 1 Reactivity: 0 PPE: B

**Section 6: Accidental Release Measures**

Spill/Leak Procedures: Usually not a problem with aerosols. Area should be ventilated. Absorbent should be used to pick up excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations. Dike area, eliminate ignition source, use respiratory protection.

**Section 7: Handling and Storage**

Handling Procedures: Store in a cool, dry area. Aerosol cans must be maintained below 120°F to prevent cans from exploding. Wear eye protection. Aerosol storage level 1.

**Section 8: Exposure Controls/Personal Protection**

Engineering Controls: Adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

**Section 9: Physical & Chemical Properties**

|                               |           |                         |                                 |
|-------------------------------|-----------|-------------------------|---------------------------------|
| Physical State:               | Liquid    | Appearance & Odor:      | Colorless liquid, sweetish odor |
| Specific Gravity:             | 1.24@70°F | Boiling Point:          | 89.6°F (initial)                |
| Freezing Point:               | NA        | Vapor Pressure:         | ND                              |
| Evaporation Rate:             | Fast      | Vapor Density (air = 1) |                                 |
| pH:                           | NA        | Solubility:             | 0.17% @ 77°F                    |
| Volatile Organic Compounds:%: | 0         | g/L: 0                  | lbs./gal: 0                     |

**Section 10: Stability and Reactivity**

Stability: Stable Hazardous Polymerization: No  
 Chemical Incompatibilities: Strong acids and alkalis, braded aluminum, sodium, potassium, calcium, magnesium, zin, barium, lithium  
 Materials to Avoid: Avoid storage & contact with aluminum and/or zinc powder.  
 Hazardous Decomposition Products: Hydrochloric and hydrofluoric acids and carbonyl halides

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

Section 12: Ecological Information

|                            | Test                                  | Results       | Route      | Species    |
|----------------------------|---------------------------------------|---------------|------------|------------|
| 1,1-Dichloro-1Fluoroethane | LC50                                  | 67,000 PPM 4H | Inhalation | Albino Rat |
| Environmental Fate:        | No data available for biodegradation. |               |            |            |

Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules. Do not dump into sewers, on the ground or into any body of water.

Section 14: Transportation Information

|                     |                    |            |    |                |            |
|---------------------|--------------------|------------|----|----------------|------------|
| Shipping Name:      | Consumer Commodity |            |    |                |            |
| Hazard Class:       | ORM-D              | UN Number: | NA | Packing Group: | 2.2 UN1950 |
| Label:              | NA                 | Placard:   | NA |                |            |
| Special Provisions: | NA                 |            |    |                |            |

Section 15: Regulatory Information

TSCA: All components are either listed under TSCA or are exempt.

SARA Title III: Section 311/312: Acute, Pressure  
Reporting Section 313\*:

CERCLA/Superfund (RQ): NA

Extremely Hazardous Substances: No

California Prop 65:

Hazard Categories:

|      |                     |              |          |                       |
|------|---------------------|--------------|----------|-----------------------|
| Fire | Release of Pressure | Acute Health | Reactive | Chronic Health Hazard |
| NO   | YES                 | ??           | NO       | YES                   |

\* See section 2 for percentage

Section 16: Additional Information

Prepared By: Chuck Muhs Date: Jan. 1, 2010  
Technical Information: (740) 498-8324

This information is accurate to the best of 31 Incorporated's knowledge or obtained from sources believed by 31 Inc. to be accurate. Before using any product, read all warnings and directions on the label.

|      |                               |           |                     |
|------|-------------------------------|-----------|---------------------|
| CAS: | Chemical Abstract Service     | NA:       | Not Applicable      |
| ppm: | Parts per Million             | ND:       | Not Determined      |
| TCC: | Tag Closed Cup                | NE:       | Not Established     |
| LEL: | Lower Exposure Limit          | g/L:      | grams per Liter     |
| UEL: | Upper Exposure Limit          | lbs./gal: | pounds per gallon   |
| PPE: | Personal Protection Equipment | RQ:       | Reportable Quantity |
| COC: | Cleveland Closed Cup          | TOC:      | NA                  |