



MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT IDENTIFICATION

Product identifier: Precision Cleaning Spray

Product Number: 2310

Manufacturer's name and address: Refer to supplier

Supplier name and address:

ALBATROSS USA INC./EXPERT WORLDWIDE

36-41 36th Street
Long Island City, New York
United States
11106
718-392-6272

5439 San Fernando Road West
Los Angeles, California
United States
90039
818-543-5850

Emergency Telephone #: Chemtrec (Day or Night) 800-424-9300
(For Chemical Emergency: Spill, Leak, Fire, Exposure or Accident)

This MSDS complies with 29CFR 19190.1200 (Hazard Communication Standard) and WHMIS regulations.

IMPORTANT: Read this MSDS before handling and disposing of this product. Pass this information on to employees, customer, and users of this product.

SECTION 2 — HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	EXPOSURE LIMITS				
	TWA (ppm)	STEL (ppm)	OTHER	%	CAS NO.
1,1 Dicholor-1-fluoroethane	N/E	N/E	500 ppm*	80-85	1717-00-6
Isopropanol	400 ppm	400 ppm	N/A	10-15	67-63-0
Carbon Dioxide	5000 ppm	30000 ppm	N/A	1-3	124-38-9
Propane (74-98-6)	1000 ppm	1000 ppm	NA		

ABBREVIATIONS:

NE: None established N/A: Not applicable *: ACGIH CAL OSHA ND: Not Determined
"STEL": Short Term Exposure Limits

SECTION 3 — PHYSICAL DATA

Boiling Point: ND **Specific Gravity (H₂O=1):** 1.1 – 1.2 (concentrate only)
Vapor Density (Air = 1): Heavier than **Vapor Pressure (mmHg or psig @ 70F):** 100 psig
Evaporation Rate (Butyl Acetate = 1): Slower than
Solubility in Water % by Wt: Negligible
Appearance & Odor: Colorless liquid with ethereal like odor

SECTION 4 — FIRE & EXPLOSION HAZARD DATA

Flash Point (°F): N/D **Flammable Limits:** LEL 2.0 UEL 15.5

Extinguishing Medium: AS APPROPRIATE FOR COMBUSTIBLES IN AREA

Fire and Explosion Hazard Data

Special Firefighting Procedures: Wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition, if possible. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective clothing, including helmet. Ventilate area. Contain spill and dike, if possible. For leaks or spills that have ignited, water spray can be used to disperse any flammable vapour and protect personnel attempting to stop the leak.

Unusual Fire & Explosion Hazards: Firefighters should wear SCBA's in a positive pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground from handling site. Eliminate all sources of ignition as vapour may ignite. Carbon oxides may be formed.

SECTION 5 — REACTIVITY DATA

Stability: Stable, avoid open flames, sparks, extremely hot metal, heating elements, pilot lights, static electricity, combustion engines, ignition sources, high temperatures (above 120°F), and direct sunlight

Incompatibility: Strong Alkali, alkaline earth metals, acetaldehyde, acids, chlorine, ethylene oxide, isocyanates, strong oxidizing agents, finely powdered metals, such as aluminium, magnesium, or zinc, and strong oxidizers since they react with or accelerate decomposition of this material. Avoid contact with hydrochloric acid.

Hazardous Decomposition Products: Thermal decomposition could include hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide, chlorine, and carbonyl halides. This product is stable in long term storage in carbon steel containers but it can gradually decompose in the presence of ferric chloride, forming hydrochloric acid, vinylidene chloride, and 1-chloro-1-floroethylene. In the presence of oxygen these chemicals can gradually form carbonyl halides, such as phosgene, a highly toxic chemical.

Hazardous Polymerization: Will not occur.

SECTION 6 — HEALTH HAZARD DATA

Effects of Over Exposure

Eye Contact: Direct contact with the liquid or mists or overexposure to the vapour may be irritating, causing tearing, stinging, redness, and swelling.

Skin Contact: Repeated or prolonged contact may cause mild skin irritation resulting in redness, burning, drying, and cracking of the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

Skin Absorption: Not likely when used as directed.

Ingestion: Not likely as an aerosol, but ingestion of excessive quantities may effect the nervous system and produce a rapid anesthetic effect, the respiratory system, or the heart.

Inhalation: Prolonged, repeated, or intentional abuse may be harmful or fatal. The dense vapour of HCFC 141-b displaces air in confined spaces and reduces available oxygen for breathing. Symptoms could include headache, dizziness, drowsiness, cyanosis, and lack of muscle control followed by collapse. Inhalation could cause and increase in the sensitivity of the heart problems should have limited exposure to this material.

Effects of overexposure may include irritation of the nose and throat and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, and fatigue. Overexposure may cause respiratory symptoms associated with pre-existing lung disorders; asthma-like conditions, to be aggravated.

Systemic and Other Effects: None known.

Emergency and First Aid Procedures

Eye Contact: In case of contact, immediately flush eyes with large amounts of water for at least 15 minutes, occasionally lifting upper and lower eyelids. If irritation occurs, get medical attention.

Skin Contact: In case of contact, wash with soap and water for at least 15 minutes. If irritation occurs call a physician. Wash clothing before reuse.

Inhalation: If affected, move person to non-contaminated fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately if symptoms persist.

Ingestion: Ingestion is not likely as an aerosol but, if ingested, **do not induce vomiting**. Give one to two glasses of water. Keep victim's head below hips or on left side with head down. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

SECTION 7 — ENVIRONMENTAL AND DISPOSAL INFORMATION

Action to Take for Spills/Leaks: Remove or extinguish ignition or combustion sources. Evacuate enclosed spaces until gas is dispersed. Keep upwind. Stop leak if possible without risk. Ventilate area-especially low places where heavy vapors might collect. Disperse gas with floor level forced air ventilation. Exhaust vapors outdoors. Contain spill and cover with inorganic absorbent material. Collect spilled material, place into an approved DOT container for disposal. Wash contaminated clothing before rewearing. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personnel protective equipment.

Waste Disposal Method: In accordance with local, state, and federal regulations. For large spills, remove to a permitted disposal facility. For small spills, dry inorganic material on plastic in direct sunlight and landfill.

SECTION 8 — HANDLING AND STORAGE PRECAUTIONS

Store in tightly sealed containers. Keep away from heat, sparks & open flame. Do not get in eyes, on skin or clothing. Do not breathe vapor, mist or gas. Do not store or transfer to an unmarked container. Do not throw empty containers in trash compactor. Do not store in direct sun. Store containers below 120°F. Do not throw empty containers into fire. Read label before using.

SECTION 9 — SPECIAL PROTECTION INFORMATION

Respiratory Protection (specify type): If use conditions generate large amounts of vapors or mists, select one of the following NIOSH approved respirators based on airborne concentration of contaminants in accordance with OSHA regulations. Full face organic vapour and acid gas respirator, full face supplied air respirator or full face pressure demand self-contained breathing apparatus.

Ventilation: Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the PEL/TLV.

Protective Gloves: Any lined non-permeable rubber gloves.

Eye Protection: Chemical resistant safety glasses with protective side shields.

Other Protective Equipment: Non-permeable clothing to protect all skin from liquid contact.

Prevention of Accidental Ingestion: Do not eat or drink around this product when using it. Wash exposed areas with soap and water when finished using.

SECTION 10 — REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

Chemical	CAS Number	Concentration %
1,1 Dichloro-1-fluoroethane (01-01-94)	1717-00-6	80-85

Federal EPA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires the notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (rqs) in 40 CFR 302.4.

Chemical	CAS Number	Concentration % Upper Bound	RQs IN #
None Listed			

California Proposition 65 None listed

Massachusetts Right to Know: Yes

Isopropanol	67-63-0	10-15	
Carbon Dioxide	124-38-9	1-3	

Pennsylvania Right to Know: Yes

Isopropanol	67-63-0	10-15	
Carbon Dioxide	124-38-9	1-3	

New Jersey Right to Know: Yes

Isopropanol	67-63-0	10-15	
Carbon Dioxide	124-38-9	1-3	

Toxic Substances Control Act (TSCA) Status: Listed

California VOC's: 97%

NFPA Rating as an Aerosol: Level One

HMIS: Health 1 Reactivity 1 Flammability 0

Carcinogenicity **Chemical** **IARC** **NTP** **OSHA**

Not Listed

Prepared by: Albatross USA Inc.
Telephone number: 718-392-6272
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NOTICE:

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.