

**Material Safety Data Sheet****Section 1 CHEMICAL PRODUCT SECTION**

**Identification:** Product Name: Precision Rinse VT  
Product Number: 8604, AS6300

**Recommend use:** Cleaner and degreaser for electrical assemblies

**Manufacturer:** ACL Incorporated  
840 W 49<sup>th</sup> Place  
Chicago, Il 60609  
PH: (01) 847.981.9212 [U.S.A.]  
FAX: (01) 847.981.9278 [U.S.A.]

**Emergency telephone:** INFOTRAC: (01) 800.535.5053 (day or night)

**Section 2 HAZARDOUS IDENTIFICATION**

HMIS HAZARD RATING:  
(1) Fire (1) Health (0) Reactivity (B) Protective Equipment

**Emergency Overview:** Product is non-flammable. Pressurized container may explode when exposed to heat or flame. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion may cause nausea, vomiting, pain, upset stomach, and diarrhea.

**Potential health effects:**

**Skin Contact:** This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin.

**Eye Contact:** Liquid or vapors may irritate the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly.

**Ingestion:** This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. *Target Organs:* Central Nervous System, lungs, skin, eyes.

**Inhalation:** This product may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heartbeats. See Section 8 for recommended exposure limits.

**Section 3 COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL	C.A.S. Number	EC#	Weight %	EU Classification and Risk phrases
HFC-4310	138495-42-8	420-640-8	2-12%	R52-53
Pentafluorobutane	406-58-6	430-250-1	15-25%	F; R11
Solstice	102687-65-0	Not Established	5-15%	Not Established
Trans-1,2-Dichloroethylene	156-60-5	205-860-2	15-25%	F; R11 Xn; R20 R52-53
1,1,1,2 Tetrafluoroethane	811-97-2	212-377-0	20-30%	not classified
Carbon Dioxide	124-38-9	204-696-9	2-12%	not classified

**Section 4 FIRST AID MEASURES**

**Eye:** Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately.

**Skin:** For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

**Inhalation:** Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.

**Ingestion:** If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek immediate medical attention. Do not give anything.

<b>Section 5</b>	<b>FIRE FIGHTING MEASURES</b>
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<b>Flash Point:</b>	<b>concentrate: N/A</b>	<b>propellant: N/A</b>
<b>Flammability limits in air:</b>	9.5 upper % by volume concentrate N/A upper % by volume propellant	3.8 lower % by volume concentrate N/A lower % by volume propellant

**Basic Fire Fighting Procedures:** Dangerous when exposed to heat or flame. Pressurized Container: May explode when exposed to heat or flame. Empty containers may retain product residue including Flammable or Explosive vapors. DO NOT cut, drill, grind, or weld near full, partially full, or empty product containers.

**Fire Fighting Instructions:** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Extinguishing Media:** Use dry chemical, carbon dioxide, or foam. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools this may result in frothing and increase fire intensity.

**Special Fire Fighting Procedures:** Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.

**Unusual Fire & Explosion Hazards:** During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water

<b>Section 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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**Emergency Action:** Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up.

**Containment:** Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with non-flammable absorbent and place in closed chemical waste containers.

<b>Section 7</b>	<b>HANDLING AND STORAGE</b>
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**Handling:** Keep this product away from heat, sparks or open flame. Avoid getting this material into contact with your skin and eyes. Avoid breathing mists or aerosols of this product.

**Storage:** Store in a cool, dry, well-ventilated area. Keep away from direct sunlight.

**Storage Temperatures:** Ambient. Avoid freezing and do not store at temperatures above 120 ° F (48.9°C)

**General:** Read and follow the directions on the product label.

**Empty Container Precautions:** Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container.

<b>Section 8</b>	<b>EXPOSURE CONTROL / PERSONAL PROTECTION</b>
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OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Exposure Limits 8 Hours TWA (ppm)

<b>Component(s)</b>	<b>TLV</b>
HFC-4310	200ppm

Pentafluorobutane	1000ppm
Solstice	No data available
Trans-1,2-Dichloroethylene	200ppm
1,1,1,2 Tetrafluoroethane	1000ppm

**Engineering Controls:** Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Personal Protection:**

**General:** Use good hygiene practices in handling this material.

**Respiratory Protection:** Use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA).

**Skin and Body Protection:** Impervious gloves should be used when handling this product. Use of protective coveralls and long sleeves is recommended.

**Eye Protection:** Wear goggles or safety glasses with side shields.

<b>Section 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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Solids: N/A	Evaporation Rate: <1 (butyl acetate=1)
PH: N/A	Boiling Point: N/A
Specific Gravity: < 1	Color: Clear
Physical State: Liquid	Odor: Characteristic

<b>Section 10</b>	<b>STABILITY AND REACTIVITY</b>
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**General:** This product is stable under normal storage conditions. Hazardous polymerization will not occur.

**Incompatible Materials:** Strong oxidizing agents, reducing agents, acids, bases.

**Hazardous Decomposition:** Carbon monoxide, carbon dioxide and hydrocarbon vapors.

**Conditions to Avoid:** Keep away from heat, direct sunlight, open flames, sparks, or sources of ignition.

<b>Section 11</b>	<b>TOXICOLOGY INFORMATION</b>
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<b>HFC-4310:</b>	Oral LD50: >5,000 mg/kg (rat) Dermal LD50: >5,000 mg/kg (rabbit)
<b>Pentafluorobutane:</b>	Oral LD50: >2,000 mg/kg (rat) Inhalation LC50: >100000 ppm/ 4H (rat)
<b>Solstice:</b>	No data available
<b>Trans-1,2-Dichloroethylene:</b>	Oral LD50: 1235 mg/kg (rat) Inhalation LC50: 24100ppm (rat) Dermal LD50: >5,000 mg/kg (rabbit)
<b>1,1,1,2 Tetrafluoroethane:</b>	No data available.

<b>Section 12</b>	<b>ECOLOGICAL INFORMATION</b>
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No information

<b>Section 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**Do not puncture, incinerate or compact aerosol can.**

When contents are depleted continue to depress button until all gas is expelled.

RCRA 40 CFR 261 Classifications: As packaged and after use, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it has neither the characteristics of Subpart C nor is listed in Subpart D.

Federal, State, and Local laws governing disposal of material can differ.  
Ensure proper disposal compliance with proper authorities before disposal.

<b>Section 14</b>	<b>TRANSPORTATION INFORMATION</b>
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U.S. DOT Information:   Basic Description: NON HAZARDOUS MATERIAL  
                                   Proper Shipping Name: Consumer Commodity  
                                   Hazard Class: NA  
                                   Packaging Group: NA  
                                   UN Number: NA  
                                   Limitations: NA

IATA:                        Proper Shipping Name: Aerosols, Non-Flammable  
                                   Hazard Class: 2.2  
                                   Packing Group: NA  
                                   UN Number: 1950  
                                   Limited Quantity: Y203

Ocean:                      Proper Shipping Name: Aerosols, Non-Flammable  
                                   Hazard Class: 2.2  
                                   Packing Group: NA  
                                   UN Number: 1950  
                                   Limited Quantity: Y203

<b>Section 15</b>	<b>REGULATORY INFORMATION</b>
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United States Federal Regulations: MSDS complies with the OSHA Rule, 29 CFR 1910.1200.  
 CERCLA/Superfund, 40 CFR 117, 302: Trans-1,2-Dichloroethylene 1000RQ

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:  
 Section 302 – None of the chemicals are Section 302 hazards

<b>CHEMICAL</b>	<b>C.A.S. Number</b>	<b>Weight %</b>	<b>Section 311/312</b>
Pentafluorobutane	406-58-6	10-20%	Fire Hazard

Section 313 – List of Toxic Chemicals (40CFR 372): This product does not contain chemicals ( at level of 1% or greater) found on the 313 list of Toxic Chemicals.

Toxic Substance Control Act (TSCA): **All substances are TSCA listed.**

Resource Conservation and Recovery Act (RCRA 40 CFR 261) Subpart C & D: Refer to Section 13

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15 (formerly section 307) 40 CFR 116 (formerly section 311): This product does not contain listed chemicals

**STATE REGULATIONS:**

This MSDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65: This product does not contain Prop 65 chemicals.

California Safer Consumer Products List: This product does not contain listed chemicals.

**INTERNATIONAL REGULATIONS:**

**Canada WHMIS:** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**REACH:** This product does not contain substances on the candidate list of Substances of Very High Concern (SvHC).

<b>Sections 16</b>	<b>OTHER INFORMATION</b>
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REVISION DATES, SECTIONS, REVISED BY:

19-Aug-13	Original Preparer: Steve Allen
09-OCT-13	Review, mkb
10-Jan-14	Changed part#, mkb

ABBREVIATIONS USED IN THIS DOCUMENT:

NE – Not Established, NA – Not Applicable, NIF – No Information Found, ND – Not Determined

ABRIDGED LIST OF REFERENCES:

Code of Federal Regulations (CFR)  
The Sigma-Aldrich Library of Regulatory and Safety Data  
Chemical Guide and OSHA Hazardous Communication Standard  
The Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))  
[http://oehha.ca.gov/prop65/prop65\\_list](http://oehha.ca.gov/prop65/prop65_list)  
<http://orise.orau.gov/emi/hazards-assessment/files/resources/epa-title3.pdf>

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