

Freeman 302 Urethane Protectant

**Section 1 Identification**

**1.1 Product Identifiers**

Product name: Freeman 302 Urethane Protectant

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Inert Gas for Industrial / Professional Use Only

**1.3 Details of the supplier of the Safety Data Sheet**

Freeman Manufacturing & Supply Company  
 1101 Moore Road, Avon, OH 44011  
 Telephone (440) 934-1902  
 Email contactus@freemansupply.com

**24 Hour Emergency Contact**

CHEMTREC Number: 800-424-9300

**Section 2 Hazards Identification**

**2.1 GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

Aerosol, Category 3 (non-flammable)

**2.2 GHS Label elements, including precautionary statements**



**Signal Word:** Warning

**Hazard Statements**

Pressurized container: may burst if heated.

**Precautionary Statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use. Response

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

Liquid can cause burns similar to frostbite

**Section 3 Composition/Information on Ingredients**

**3.1 Substances / Mixtures**

Ingredient Name	CAS Number	Concentration
1,1,1,2-Tetrafluoroethane	811-97-2	> 99%

**Section 4 First Aid Measures**

**4.1 Description of first aid measures**

**If inhaled:** Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**In case of skin contact:** In case of skin contact, wash thoroughly with soap and water. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.

**In case of eye contact:** Flush eyes with plenty of water occasionally lifting the upper and lower eyelids. Check and remove any contact lenses if safe to do so. Continue to rinse for at least 15 minutes. If irritation develops, seek medical attention.

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**Section 4 First Aid Measures**

**If swallowed:** Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

**4.2 Most important symptoms and effects, both acute and delayed**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Section 5 Fire Fighting Measures**

**5.1 Extinguishing Media**

Suitable extinguishing media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

**5.2 Special hazards arising from the substance or mixture**

In a fire or if heated, a pressure increase will occur, and the container may burst.

**5.3 Hazardous Combustion Products**

Carbon oxides

**5.4 Advice for firefighters**

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

**Section 6 Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely. For personal protection see Section 8.

**6.2 Environmental precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

**6.3 Methods and materials for containment and cleaning up**

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

**Section 7 Handling and Storage**

**7.1 Precautions for safe handling**

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

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**Section 8 Exposure Controls/Personal Protection**

**8.1 Control Parameters**

None defined

**8.2 Exposure Controls**

**Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

**8.3 Personal Protective Equipment**

**Eye/Face Protection:** Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**8.4 Skin Protection**

**Hand Protection:** Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

**8.5 Respiratory Protection**

Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

**8.6 Safety Stations**

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**8.7 General Hygienic Practices**

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

**Section 9 Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Aerosol, colorless gas
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Freezing Point</b>	-162.4°F
<b>VOC Content</b>	No data available
<b>Boiling Point</b>	-14.8°F
<b>Flash Point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor Pressure</b>	4204 mmHg @ 77°F
<b>Vapor density (Air = 1)</b>	3.5
<b>Relative density (g/cc)</b>	Not applicable, (gaseous at ambient conditions)
<b>Water Solubility</b>	1 g/l
<b>Coefficient: n-octanol/water</b>	1.06
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	Not applicable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

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**Section 10 Stability and Reactivity**

<b>10.1 Reactivity</b>	No hazardous reactions if stored and handled as prescribed/indicated. No corrosive effect on metal. Not fire propagating.
<b>10.2 Chemical stability</b>	Product is stable at room temperature in closed containers under normal storage and handling conditions.
<b>10.3 Possibility of hazardous reactions</b>	Hazardous polymerization cannot occur
<b>10.4 Conditions to avoid</b>	Heat and open flames.
<b>10.5 Incompatible materials</b>	Strong bases and acids
<b>10.6 Hazardous decomposition products</b>	Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

**Section 11 Toxicological Information**

<b>11.1 Information on toxicological effects</b>	
<b>Acute Oral Toxicity</b>	No data available
<b>Acute Inhalation Toxicity</b>	LC 50-1500 g/m <sup>3</sup> (rat, 4 hour)
<b>Acute Dermal Toxicity</b>	No data available
<b>Skin Corrosion/Irritation</b>	Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
<b>Serious Eye Damage/Irritation</b>	Liquid can cause burns similar to frostbite.
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity</b>	
- Single Exposure	No data available
- Repeated Exposure	No data available
<b>Aspiration hazard</b>	No data available

**Section 12 Ecological Information**

<b>12.1 Toxicity</b>	No data available
<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bioaccumulative potential</b>	LogPow=1.06, low bioaccumulation potential
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT &amp; vPvB assessment</b>	No data available

**Section 13 Disposal Considerations**

<b>13.1 Waste treatment methods</b>	Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Regulations may vary in various locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. <b>Container disposal:</b> Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.
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Section 14 Transport Information

14.1 DOT / IMDG / IATA

UN Number: UN3159

Proper Shipping Name: 1,1,1,2 Tetrafluoroethane

Hazard Class: 2.2

Packing Group: Not Applicable

Environmental Hazard: No

Section 15 Regulatory Information

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture:

**REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016):** This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

**TSCA Inventory Status (40 CFR710):** All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

**CERCLA Hazardous Substance List (40 CFR 302.4):** None known.

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:** None

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Proposition 65:** This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

Section 16 Other Information

16.1 Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Issue Date: December 1, 2015

Revision Date: October 17, 2022