






# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>PRODUCT NUMBER:</b>	1331	<b>COMPANY PHONE:</b>	1-800-241-8180
<b>PRODUCT NAME:</b>	ELIMINATOR	<b>EMERGENCY TELEPHONE:</b>	1-800-241-8180
<b>PRODUCT DESCRIPTION:</b>	Air Sanitizer and Deodorizer	<b>INFOTRAC:</b>	1-800-535-5053
<b>COMPANY INFORMATION:</b>	<b>PRO CHEM, INC.</b> 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

## 2. Hazards Identification

<b>GHS CLASSIFICATION:</b> Flammable aerosols : Category 2 Gases under pressure : Liquefied gas Eye irritation : Category 2A	<b>SIGNAL WORD:</b> <b>WARNING</b>	<b>SYMBOL:</b>			
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### HAZARD STATEMENTS:

H223 Flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.

### PRECAUTIONARY STATEMENTS:

**Prevention:** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.  
**Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
**Storage:** P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

## 3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
1,1-difluoroethane	75-37-6	>= 50 - < 70
Ethanol	64-17-5	>= 20 - < 30
Propan-2-ol	67-63-0	>= 1 - < 5
Sodium nitrite	7632-00-0	>= 0.1 - < 1

The exact percentages of disclosed substances are withheld as trade secrets.

## 4. First Aid Measures

### EMERGENCY OVERVIEW

**GENERAL:** Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.  
**EYES:** Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes.  
**SKIN:** If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. If on clothes, remove clothes.  
**INHALATION:** Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.  
**INGESTION:** Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Take victim immediately to hospital.

## 5. Fire Fighting Measures

### SUITABLE FIRE EXTINGUISHING MEDIA:

Carbon dioxide (CO2). Alcohol-resistant foam. Dry chemical. Water spray jet.

### UNSUITABLE FIRE EXTINGUISHING MEDIA:

High volume water jet.

### HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide (CO2). Carbon monoxide. Smoke. Fluorine compounds.

### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Do not allow run-off from firefighting to enter drains or watercourses.

### SPECIFIC FIRE-FIGHTING METHODS:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

### PERSONAL PRECAUTIONS:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### ENVIRONMENTAL PRECAUTIONS:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

### METHODS AND MATERIALS FOR CONTAINMENT & CLEANUP:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## 7. Handling and Storage

### SAFE HANDLING:

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. Do not breathe vapours or spray mist. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in workrooms. Dispose of rinse water in accordance with local and national regulations. Always replace cap after use.

### SAFE STORAGE:

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Keep in a dry, cool and well-ventilated place.

### MATERIALS TO AVOID:

Store and keep away from, oxidizing agents and acids.

## 8. Exposure Controls / Personal Protection

Components	CAS No	Value Type (Form of Exposure)	Control Parameters/ Permissible Concentration	Basis
1,1-difluoroethane	75-37-6	TWA	1,000 ppm	US WEEL
Ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm	NIOSH REL
Propan-2-ol	67-63-0	TWA	1,900 mg/m <sup>3</sup>	
		TWA	1,000 ppm	OSHA Z-1
		TWA	1,900 mg/m <sup>3</sup>	
		TWA	1,000 ppm	OSHA P0
		TWA	1,900 mg/m <sup>3</sup>	
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
		ST	980 mg/m <sup>3</sup>	
		ST	500 ppm	NIOSH REL
TWA	1,225 mg/m <sup>3</sup>			
TWA	400 ppm	OSHA Z-1		
TWA	980 mg/m <sup>3</sup>			
TWA	400 ppm	OSHA P0		
TWA	980 mg/m <sup>3</sup>			
STEL	500 ppm	OSHA P0		
STEL	1,225 mg/m <sup>3</sup>			

### BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:

Component	CAS No	Control Parameters	Biological Specimen	Sampling Time	Permissible Concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ACGIH BEI

### APPROPRIATE ENGINEERING MEASURES:

Effective ventilation in all processing areas.

### PERSONAL PROTECTIVE EQUIPMENT:



**Eye Protection:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses.

**Skin Protection:** Hand: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Skin/Body: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene Considerations:** When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**9. Physical & Chemical Properties**

<b>Appearance:</b>	Aerosol containing a liquefied gas.	<b>Flammability (solid/gas):</b>	Flammable aerosol.
<b>Color:</b>	Clear.	<b>Explosive Limit – lower (%):</b>	No data available.
<b>Odor:</b>	Alcohol like.	<b>Explosive Limit – upper (%):</b>	No data available.
<b>Odor Threshold:</b>	No data available.	<b>Solubility (water):</b>	Soluble.
<b>pH:</b>	No data available.	<b>Auto-Ignition Temperature:</b>	Not determined.
<b>Melting/Freezing Point:</b>	No data available.	<b>Thermal Decomposition:</b>	No data available.
<b>Boiling Point:</b>	No data available.	<b>Viscosity, kinematic:</b>	No data available.
<b>Partition Coeff (n-octanol/water):</b>	No data available.	<b>Heat of Combustion:</b>	17.27 kJ/g
<b>Flash Point:</b>	Not applicable.	<b>Evaporation Rate:</b>	> 1 - n-Butyl Acetate = 1.0
<b>Relative Vapor Density:</b>	No data available.	<b>Vapor Pressure:</b>	5,515 hPa (21.1°C)
<b>Density:</b>	No data available.		

**10. Stability & Reactivity Information****REACTIVITY:**

Stable.

**CHEMICAL STABILITY:**

Stable under normal conditions

**POSSIBILITY OF HAZARDOUS REACTIONS:**

No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

**INCOMPATIBLE MATERIALS:**

Oxidizing agents. Amines. Bases. Potassium.

**CONDITIONS TO AVOID:**

Heat, flames and sparks. Extremes of temperature and direct sunlight.

**HAZARDOUS DECOMPOSITION PRODUCTS:**Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Nitrogen oxides (NO<sub>x</sub>). Hydrogen fluoride.**11. Toxicological Information****POTENTIAL HEALTH EFFECTS:****Carcinogenicity:****IARC:** No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**ACGIH:** No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.**OSHA:** No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**NTP:** No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**ACUTE TOXICITY:**

Product:	Species	Test Results	Method
<b>Acute Oral</b> LD50		>5,000 mg/kg	Calculation method
Components	Species	Test Results	Exposure Time
1,1-difluoroethane:			
<b>Acute Inhalation</b> LC50	Mouse	977,000 mg/l	2 hours
Ethanol			
<b>Acute Inhalation</b> LC50	Rat	124.7 mg/l	4 hours
<b>Acute Oral</b> LD50	Rat	7,060 mg/kg	
Propan-2-ol			
<b>Acute Oral</b> LD50	Rat	4,396 mg/kg	Calculation method

**SKIN CORROSION/IRRITATION:**

May cause skin irritation in susceptible persons.

**SERIOUS EYE DAMAGE/IRRITATION:**

Severe eye irritation.

**RESPIRATORY OR SKIN SENSITIZATION:**

No data available.

**GERM CELL MUTAGENICITY:**

No data available.

**CARCINOGENICITY:**

Not classifiable as a human carcinogen.

**REPRODUCTIVE TOXICITY:**

No data available.

**STOT - single exposure:**

No data available.

**STOT - repeated exposure:**

No data available.

**ASPIRATION TOXICITY:**  
No data available.  
**FURTHER INFORMATION:**  
No data available.

## 12. Ecological Information

**ECOTOXICITY:**  
No data available.  
**PERSISTENCE AND DEGRADABILITY:**  
No data available.  
**BIOACCUMULATIVE POTENTIAL:**  
Partition coefficient: n- octanol/water: No data available.  
**MOBILITY IN SOIL:**  
No data available.  
**OTHER ADVERSE EFFECTS:**  
No data available.  
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances.  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).  
**ADDITIONAL ECOLOGICAL INFORMATION:**  
No data available.

## 13. Disposal Consideration

**WASTE FROM RESIDUES:**  
Dispose of in accordance with local regulations. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.  
**CONTAMINATED PACKAGING:**  
Empty remaining contents. Dispose of as unused product. Do not reuse empty containers. Do not burn, or use a cutting torch on, the empty drum.

## 14. Transportation Information

**TRANSPORTATION REGULATION: 49 CFR (USA):**  
ORM-D, CONSUMER COMMODITY  
**TRANSPORTATION REGULATION: IMDG (Vessel):**  
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity  
**TRANSPORTATION REGULATION: IATA (Cargo Air):**  
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity  
**TRANSPORTATION REGULATION: IATA (Passenger Air):**  
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity  
**TRANSPORTATION REGULATION: TDG (Canada):**  
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity  
The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

## 15. Regulatory Information

### EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

Components	CAS No	Component RQ (lbs)	Calculated Product RQ (lbs)
Sodium nitrate	7632-00-0	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:

Components	CAS No	Component RQ (lbs)	Calculated Product RQ (lbs)
Ammonia, anhydrous	7664-41-7	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 311/312 HAZARDS:

Sudden Release of Pressure Hazard. Acute Health Hazard. Fire Hazard.

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

**SARA 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 PROP 65:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### THE COMPONENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

TSCA: On TSCA Inventory.

DSL: This product contains one or several components that are not on the Canadian DSL nor NDSL.

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

### INVENTORY ACRONYM AND VALIDITY AREA LEGEND:

TSCA (USA), DSL (Canada), NDSL (Canada)

## 16. Other Information

### DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.