


SAFETY DATA SHEET

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

2. Hazards Identification			
GHS CLASSIFICATION: Flammable Aerosols: Category 2 Gases Under Pressure: Liquefied gas Eye Irritation: Category 2A Reproductive Toxicity: Category 2	SIGNAL WORD: WARNING	SYMBOL:	
HAZARD STATEMENTS: H223: Flammable aerosol. H280: Contains gas under pressure; may explode if heated. H319: Causes serious eye irritation. H361: Suspected of damaging fertility or the unborn child.			
PRECAUTIONARY STATEMENTS: Prevention: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. 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 protective gloves/ protective clothing/ 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. P308 + P313: If exposed or concerned: Get medical advice/attention. 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. Disposal: Dispose of contents/container in accordance with local regulation.			
HAZARDS NOT OTHERWISE SPECIFIED: No additional information available.			
ADDITIONAL INFORMATION: Not applicable.			

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
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	>= 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: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 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.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and rash. Causes serious eye damage. Review section 2 of SDS to see all potential hazards.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptomatically. Symptoms may be delayed.

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.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Do not allow run-off from fire fighting to enter drains or water courses.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Carbon dioxide (CO₂), Carbon monoxide, Smoke, Fluorine compounds, Hydrogen fluoride, Fluorocarbons.

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 containment. Use a water spray to cool fully closed containers.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained breathing apparatus for firefighting if necessary (SCBA).

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 & 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. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Always replace cap after use.

SAFE STORAGE & INCOMPATIBILITIES:

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. Store and keep away from oxidizing agents and acids.

8. Exposure Controls / Personal Protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	CAS No	Type	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 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1
		TWA	400 ppm 980 mg/m ³	OSHA P0
		STEL	500 ppm 1,225 mg/m ³	OSHA P0
		PEL	400 ppm 980 mg/m ³	CAL PEL
		STEL	500 ppm 1,225 mg/m ³	CAL PEL

BIOLOGICAL LIMIT VALUES

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

* - For sampling details, please see the source document.

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Skin Protection: No special protection is required.

Respiratory Protection: No personal respiratory protective equipment normally required.

General Hygiene Considerations: When using, do not eat or drink.

APPROPRIATE ENGINEERING CONTROLS:

Effective ventilation in all processing areas. When using, do not smoke. Wash hands before breaks and at the end of workday.

9. Physical & Chemical Properties

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

10. Stability & Reactivity Information

REACTIVITY:

Stable.

CHEMICAL STABILITY:

Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

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

CONDITIONS TO AVOID:

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

INCOMPATIBLE MATERIALS:

Oxidizing agents, Amines, Bases, Potassium.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, Carbon dioxide (CO₂), Hydrocarbons Nitrogen oxides (NO_x), Hydrogen fluoride.

11. Toxicological Information

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Aggravated Medical Condition: None known.

Symptoms of Overexposure: Effects are immediate and delayed. Symptoms may include irritation, redness, pain and rash.

ACUTE TOXICITY:

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

SKIN CORROSION/IRRITATION:

Remarks: May cause skin irritation in susceptible persons.

SERIOUS EYE DAMAGE/EYE IRRITATION:

Remarks: Severe eye irritation.

RESPIRATORY SENSITIZATION:

No data available.

SKIN SENSITIZATION:

No data available.

GERM CELL MUTAGENICITY:

No data available.

CARCINOGENICITY:

Carcinogenicity – Assessment: Not classifiable as a human carcinogen

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: Confirmed animal carcinogen with unknown relevance to humans

Ethanol 64-17-5

OSHA: No component of this product present 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 present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

REPRODUCTIVE TOXICITY:

No data available.

SPECIFIC TARGET ORGAN TOXICITY -single exposure:

No data available.

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:

No data available.

ASPIRATION HAZARD:

No data available.

12. Ecological Information

ECOTOXICITY:

No data available.

PERSISTENCE AND DEGRADABILITY:

No data available.

BIOACCUMULATIVE POTENTIAL:

Product: Partition coefficient: n-octanol/water: No data available.

Components: Ethanol: Partition Coefficient: n-octanol/water: No data available.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

Product:

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

DISPOSAL INSTRUCTIONS:

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

DOT: **UN Number:** UN1950
UN Proper Shipping Name: Aerosols, flammable.

Transport Hazard Class(es):

Class: 2.1

Subsidiary risk: -

Label(s): 2.1

Packing Group: Limited quantity

IATA: **UN Number:** UN1950

UN Proper Shipping Name: FLAMMABLE

Transport Hazard Class(es):

Class: 2.1

Subsidiary risk: -

Label(s): 2.1

Packing Group: Limited quantity

IMDG: **UN Number:** UN1950

UN Proper Shipping Name: AEROSOLS, FLAMMABLE

Transport Hazard Class(es):

Class: 2.1

Subsidiary risk: -

Label(s): 2.1

Packing Group: 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

US FEDERAL REGULATIONS:

This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Pesticide Labeling Information Required Under U.S. FIFRA Regulations.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION

Observe label precautions.

TSCA List: No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.

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:

This material does not contain any components with a section 304 EHS RQ.

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 HAZARDS:

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