






SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1343	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	AIRMATIC SANI MIST	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Metered Air Sanitizer For Bacterial and Virus Control	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 1 Gases Under Pressure: Liquefied gas Eye Irritation: Category 2A Specific Target Organ Toxicity Single Exposure: Category 3 (Central Nervous System)	SIGNAL WORD: DANGER	SYMBOL:			
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HAZARD STATEMENTS:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS:

Prevention:

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye protection/ face protection.

Response:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage:

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

Disposal:

Dispose of contents/container in accordance with local regulation.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
propan-2-ol	67-63-0	>= 30 - < 50
1,1-difluoroethane	75-37-6	>= 30 - < 50
butane	106-97-8	>= 10 - < 20
1,1'-oxydipropan-2-ol	110-98-5	>= 1 - < 5

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

EYES: Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

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.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

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

UNSUITABLE FIRE EXTINGUISHING MEDIA:

High volume water jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Do not allow runoff from firefighting to enter drains or watercourses.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Carbon dioxide (CO₂). Carbon monoxide. Smoke.

SPECIFIC FIRE-FIGHTING METHODS:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained breathing apparatus for firefighting, if necessary.

FURTHER INFORMATION:

For safety reasons, in case of fire cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

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. Vapors can accumulate in low areas.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

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

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
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.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY 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.

Keep in a dry, cool, and well-ventilated place.

Electrical installations/working materials must comply with the technological safety standards.

MATERIALS TO AVOID:

Store and keep away from bases and alkalines.

Do not store near acids.

Oxidizing agents.

8. Exposure Controls / Personal Protection

Components with workplace control parameters

Components	CAS No	Value Type (form of exposure)	Control Parameters/permissible concentration	Basis
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
			980 mg/m ³	
		ST	500 ppm	NIOSH REL
			1,225 mg/m ³	
		TWA	400 ppm	OSHA Z-1
			980 mg/m ³	
1,1-difluoroethane	75-37-6	TWA	400 ppm	OSHA P0
			980 mg/m ³	
		STEL	500 ppm	OSHA P0
			1,225 mg/m ³	
butane	106-97-8	TWA	1,000 ppm	US WEEL
			800 ppm	NIOSH REL
			1,900 mg/m ³	
		TWA	800 ppm	OSHA P0
			1,900 mg/m ³	

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

Components	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

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Safety glasses. Ensure that eyewash stations and safety showers are close to the workstation location.
SKIN PROTECTION: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
HAND PROTECTION: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
RESPIRATORY PROTECTION: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
HYGIENE MEASURES: 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

APPEARANCE:	Aerosol containing a liquefied gas	Explosive Limit – lower (%):	No data available.
Color:	Colorless	Explosive Limit – upper (%):	No data available.
ODOR:	Pleasant	VAPOR PRESSURE:	Not available.
ODOR THRESHOLD:	No data available.	RELATIVE VAPOR DENSITY:	No data available.
pH:	No data available.	DENSITY:	1.04 g/cm ³
MELTING/FREEZING POINT:	No data available.	SOLUBILITY (water):	Partly soluble.
BOILING POINT:	No data available.	AUTO-IGNITION TEMP:	Not determined.
PARTITION COEFFICIENT (n-octanol/water):	No data available.	THERMAL DECOMPOSITION:	Not available.
EVAPORATION RATE:	Not determined.	FLASH POINT:	No data available.
SOLUBILITY(other solvents):	Not determined.	VISCOSITY (kinematic):	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.

INCOMPATIBLE MATERIALS:
Acids. Bases. Oxidizing agents.

CONDITIONS TO AVOID:
Extremes of temperature and direct sunlight. Heat, flames, and sparks.

DECOMPOSITION PRODUCTS:
Carbon oxides.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

ACUTE/POTENTIAL HEALTH EFFECTS:

PRODUCT:

ACUTE ORAL TOXICITY: Acute toxicity estimate: > 5,000 mg/kg.
Method: Calculation method.

ACUTE DERMAL TOXICITY: Acute toxicity estimate: > 5,000 mg/kg.
Method: Calculation method.

COMPONENTS:

propan-2-ol:
Acute oral toxicity: LD50 Oral rat: 4,396 mg/kg.
Method: Calculation method.

1,1-difluoroethane:
Acute inhalation toxicity: LC50 mouse: 977,000 mg/l
Exposure time: 2 h.

butane:
Acute inhalation toxicity: LC50 mouse: 1,237 mg/l.
Exposure time: 2 h.

1,1'-oxydipropan-2-ol:
Acute oral toxicity: LD50 Oral rat: 14,850 mg/kg
Acute dermal toxicity: LD50 Dermal rabbit: > 20 mg/kg

SKIN CORROSION/IRRITATION:
May cause skin irritation in susceptible persons.

SERIOUS EYE DAMAGE/IRRITATION:
May cause irreversible eye damage.

RESPIRATORY/SKIN SENSITIZATION: .
No data available.

GERM CELL MUTAGENICITY:
No data available.

CARCINOGENIC INFORMATION:

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.

REPRODUCTIVE TOXICITY:
 No data available.
propan-2-ol:
1,1-difluoroethane:
butane:
1,1'-oxydipropan-2-ol:

STOT - single exposure:
 No data available.

STOT - repeated exposure:
 No data available.

ASPIRATION TOXICITY:
 No data available.

FURTHER INFORMATION
Product: Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

12. Ecological Information

ECOTOXICITY:
 No data available.

PERSISTENCE AND DEGRADABILITY:
 No data available.

BIOACCUMULATIVE POTENTIAL
Product: Partition coefficient: n-octanol/water: Remarks: no data available.

COMPONENTS:
butane :
 Partition coefficient: n-octanol/water: Pow: 2.89.

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

WASTE FROM RESIDUES:
 Dispose of in accordance with local regulations. Do not contaminate ponds, waterways, or ditches with chemical or used container. The product should not be allowed to enter drains, watercourses, or the soil.

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, 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, 2.1, - Limited quantity

15. Regulatory Information

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:
Warning: Causes skin and eye irritation. Harmful if swallowed.

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

COMPONENTS	CAS No	COMPONENT RQ (lbs)	CALCULATED PRODUCT RQ (lbs)
cyclohexane	110-82-7	1000	*

*: 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.

SARA 311/312 Hazards:

Fire Hazard
Sudden Release of Pressure Hazard
Acute 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:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
methanol 67-56-1

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.
AICS Not in compliance with the inventory
NZIoC Not in compliance with the inventory
PICCS Not in compliance with the inventory
IECSC Not in compliance with the inventory

Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

16. Other Information

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 3	Flammability: 4	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 3	Flammability: 4	Physical hazards: 2	Personal protection:

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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.