

SAFETY DATA SHEET

EX-99R Anti-Fog Cleaner

Revision Date: 7/15/2021

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EX-99R Anti-Fog Cleaner

PRODUCT USE: Anti-Fog cleaning solution in aqueous isopropanol.

MANUFACTURER: Exxene Corporation, 5939 Holly Road, Corpus Christi, TX 78412, 1-361-991-8391

EMERGENCY: For Hazardous Materials Incident - Spill, Leak, Fire, Exposure, or Accident - Call CHEMTREC 1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health Serious eye damage/eye irritation Acute toxicity, inhalation	Category 2A Category 3		Environmental	Physical
		Acute toxicity: Chronic toxicity:	Not applicable Not applicable	Flammable liquids Category 2
		,		

GHS LABEL:

Signal Word: DANGER

WHMIS CLASSIFICATION: Class B, Division 2

Class D, Division 2, Subdivision B

Hazard Statements

H225 Highly Flammable liquid and vapour. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

 $P305 + P351 + P338 \\ \ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.$

P370 + P378 In case of fire: Use dry chemical or carbon dioxide for extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container according to local and national material disposal regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	Concentration, %
Isopropyl Alcohol	67-63-1	70

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. Take SDS.

Skin contact: Remove contaminated clothing and shoes. Wash with plenty of soap and water. Seek medical attention. Take this SDS.

Inhalation: Remove the victim to fresh air. Monitor respiratory function. If there is breathing difficulty, provide oxygen. If necessary, give artificial respiration. Seek

medical attention. Take this SDS.

Ingestion: Rinse mouth with water. Give nothing to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Call Poison Information Centre.

Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Take this SDS. Doctor: administration of

chemical antidote. Doctor: gastric lavage.

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SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, alcohol resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguishing Media: Solid water jet ineffective as extinguishing medium. Exposure Hazards: Gas/vapor flammable with air within explosion limits.

Combustion Products: Hazardous decomposition products formed under fire conditions include formaldehyde and carbon oxides. Advice for firefighters:

Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of toxic fire-fighting water. Use water

moderately and if possible collect or contain it.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel precautions: Use personal protective equipment. Avoid breathing vapors, mists or gas. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low area.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Environmental precautions:**

Methods for cleaning spills: Discard any product, waste, container or wrapper available in an appropriate manner as not to harm the environment, according to federal

regulations, state and local.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid inhalation with vapor or mist. Use proper personal protective equipment as indicated in Section 8.

Use explosion proof equipment. Keep away from ignition sources. Take measures to prevent buildup of electrostatic charge

Storage: Store at room temperature. Keep out of direct sunlight. Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom.

Keep locked up. Provide for a tub to collect spills. Provide the tank with earthing/grounding. Unauthorized persons are not admitted.

Meet all legal requirements.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

ACGIH TLV ACGIH STEL OSHA PEL Component **OSHA STEL EXPOSURE LIMITS:** Isopropyl Alcohol 200 400 400 Expressed in ppm

Engineering Controls: Provide mechanical ventilation or direct exhaustion to the external media. It is recommended safety shower and eye bath available near

Monitoring: Maintain breathing zone airborne concentration below exposure limits.

PERSONAL PROTECTIVE EQUPMENT (PPE):

Eye Protection: Avoid contact with eyes; wear splash-proof chemical goggles, face shield, safety glasses (spectacles) as may be appropriate for exposure. **Respiratory Protection:**

Prevent inhalation of the solvent. Use in a well-ventilated location. Ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the

Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

SECTION 9 - PHYSICAL AND CHEMCIAL PROPERTIES

colorless liquid alcohol Appearance: Odor: Odor Threshold: pH: 3-610 ppm . Melting: -88 °C 82 °C to 100 °C **Boiling Range:** 12 °C TCC Flash Point: **Evaporation Rate:** 21 (ether = 1) Flammability Limits: LEL: 2 %; UEL: 12% Specific Gravity: 0.890 @20°C) Solubility: Vapor Density: 2.1 (Air = 1)100% water 44 hPa @ 20°C (68°F) Viscosity: 2 cP @ 25 $^{\circ}$ C Vapor Pressure: 399 °C

Auto-ignition Temp: Decomposition Temperature: not listed

VOC Content: 6.82 lb/gal Flammability (GHS Hazard category) 2

SECTION 10 - STABILITY AND REACTIVITY

HMIS NFPA Stability: Stable under normal conditions of storage and handling. Polymerization will not occur Health Hazardous decomposition: When heated produces acrid and toxic smoke and fumes composed of carbon oxides. Flammability Reactivity ō ō Conditions to avoid: Ignition sources, flame/heat, high temperatures and contact with incompatible materials. Incompatible materials: Personal Protection Н Strong oxidizers. Ammonia. Strong acids. Peroxides.

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SECTION 11 -TOXICOLOGICAL INFORMATION

Likely routes of Exposure:

Acute symptoms and effects: Inhalation:

Inhalation.

May cause central nervous system disorders with headache, muscle weakness, dizziness and unconsciousness. May cause

respiratory irritation with cough and shortness of breath. Eye contact: Irritating and may cause damage to eyes with redness and pain.

Skin contact: Irritating to skin with redness, pain and dryness.

Ingestion: May cause gastrointestinal disturbances with nausea, vomiting and diarrhea.

Chronic symptoms and effects: Skin rash/inflammation. Headache. Gastrointestinal complaints. Cardiac and blood circulation effects.

Reproductive Effects	Teratogenicity	Mutagenicity	Embryo toxicity	Sensitization to Product	Synergistic Products
No information	No information	None	No information	None expected	No information

Toxicity: LD₅₀ (oral, rats): 5045 mg/kg LC₅₀ (inhalation, rats, 4h): 73 mg/L

SECTION 12 - ECOLOGICAL INFORMATION

Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia) (EC50 (48h) > **Ecotoxicity:**

1000 mg/l). Not harmful to algae (EC50 (72h) >1000 mg/l). Inhibition of activated sludge.

Mobility: No data

Degradability: Expected low persistence and high degradability.

Bioaccumulation: Expected low bioaccumulative potential in aquatic organisms.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal experts and your regulatory agency

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Coating Solution

Hazard Class: 3 Secondary Risk: **UN/NA Number:** 1139 Packing Group:

Label Required: Class 3 Flammable Liquid

Marine Pollutant:

SECTION 15 - REGULATORY INFORMATION

CERCLA (Superfund) reportable quantity:

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No

Section 311/312/313 hazardous chemical Section 302 extremely hazardous substance Not listed Isopropyl Alcohol

State regulations

None

Ingredient Listings USA TSCA

SECTION 16 - OTHER INFORMATION

Intended Use: Anti-Fog cleaning solution in aqueous isopropanol.

Disclaimer: This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. This information does not represent any guarantee of the properties of the product, and Exxene Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.

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