MATERIAL SAFETY DATA SHEET
AMD Anti-Fog Solution

COMPANY IDENTIFICATION

Product Name	AMD Anti-Fog Solution
Manufacturer/Supplier	Advanced Medical Design Co., Ltd.

HAZARDS IDENTIFICATION

Routes of exposure
Eye contact. Ingestion. Inhalation. Skin contact

Carcinogenic Status
Not considered carcinogenic by NTP, IARC, and OSHA.

Eyes

Causes eye irritation on direct contact.

Skin
May cause skin irritation and dermatitis.

Ingestion
May cause abdominal pain, swelling and mild diarrhea.

Inhalation
The vapors/fumes may cause respiratory tract irritation.

FIRST AID MEASURES

Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Get medical attention if needed.

Skin
Immediately wash skin thoroughly with soap and water. Continue washing for at least 15 minutes. Get medical attention if needed.

Ingestion
Have victim drink 1-3 glasses of water to dilute stomach contents. Get medical attention if needed.

Inhalation
Remove from exposure. Get medical attention if needed.

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FIRE-FIGHTING MEASURES

Extinguishing Media
Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards
Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES

Personal precautions
Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

Methods for containment
Dike the spilled material, where this is possible.

Methods for cleaning up
Large Spills: Dike the spilled material, where this is possible. Transfer into suitable containers for recovery or disposal.
Small Spills: Clean surface thoroughly to remove residual contamination.

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PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Clear
Odor	Alcoholic
pH	6~8
Specific Gravity	0.997
Boiling Range/Point (°C/F)	97°C
Flash Point (PMCC) (°C/F)	85°C

COMPOSTION/INFORMATION ON INGREDIENTS

Component Name	CAS#	Registration No	Concentration
Isopropyl alcohol	67-63-0	Not available	< 2.00 %
Surfactant	9003-11-6	Not available	< 2.00 %
Water	7732-18-5	Not available	> 96.00%

HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place. Keep container tightly closed and stay away from incompatible materials. Avoid breathing vapor or mist.

TRANSPORT INFORMATION

DOT CFR 172.101 Data Not Regulated per 49 CFR 173.4 Small Quantity Exemption
UN Proper Shipping Name: None
UN Class: None
UN Number: None
UN Packaging Group: None
Alcohol content: < 2.00%

Consult current IATA regulations prior to shipping by air.

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TOXICOLOGICAL INFORMATION

Assessment of acute toxicity for Anti-Fog Solution:

Virtually no toxicity was observed after an intraperitoneal injection into mice.

Assessment of acute toxicity for surfactant:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (BASF-Test)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LC50 rat (by inhalation): not determined

LD50 rabbit (dermal): > 2,000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of acute toxicity for Isopropyl alcohol:

LD50 Oral	LD50 Dermal	LC50 Inhalation
5045 mg/kg (Rat) 3600 mg/kg (Mouse)	12800 mg/kg (Rat)	72.6 mg/L (Rat) 4h

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ECOLOGICAL INFORMATION

Mobility
Isopropyl Alcohol
In soil, expected to have high mobility

Surfactant
In soil, expected mobility of the surfactant is low to high.

Persistence/Degradability
Isopropyl Alcohol
No information available for the product.

Surfactant
No information available for the product.

Bio-accumulation
Isopropyl Alcohol
No information available for the product.

Surfactant
No information available for the product.

Ecotoxicity
Avoid release to the environment.

DISPOSAL CONSIDERATIONS

Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

OTHER INFORMATION

All information given is based on available data and to the best of our ability.

Assumes no responsibility and denies all liability for any loss, damage, or expense connected with customer's methods of handling, storage, use and/or disposal of this product. MSDS information provided herein is applicable only to this product.

This product has a shelf life of five years. Do not use after the expiration date.