1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name ANTI-FOG

Product Number AF-LC003

Brand Cat Crap

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses-Consumer and industrial safety applications and as a cleaning solution for glass and plastic surfaces.

1.3 Details of the supplier of the safety data sheet

Company EK Ekcessories
575 West 3200 South
Logan, UT 84321 USA

Telephone +1 800-338-2030

FAX + 801-753-2411

1.4 Emergency Telephone Number

Emergency Phone# (801) 753-8448

SECTION 1 NOTES-The use pattern and exposure in the workplace are generally not consistent with those experienced by the consumer. This SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

GHS Label elements, including precautionary statements (PAGE2)

Not a hazardous substance or mixture-(The content(s) of this product are not a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200)

2.2 Hazards not otherwise classified (NNOC) or not covered by GHS-none

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3.COMPOSITION/INFORMATION ON INGREDIENTS

3.1 This product is a light greenish gel with little or no fragrance.

Direct contact with eyes may cause irritation.

Repeated or prolonged excessive contact with skin may cause irritation.

No significant environmental effects.

Not a fire hazard.

Product is stable.

Formula-Trade Secret

This product contains Glycerol

Molecular weight- 92.09 g/mol

CAS-No. :56-81-5

EC-No. :200-289-5

(Glycerol is a listed CAS-No. :56-81-5 and is one of the ingredients used in the formulation of ANTI-FOG.)

It should be noted that Glycerol-(CAS-No. 56-81-5/EC-No.200-289-5), consists of less than .02% of Anti-Fogs total

make up when Anti-Fog is in its completed product form.

4 FIRST AID MEASURES

4.1 Description of First Aid Measures

GENERAL ADVICE-show this safety data sheet to the doctor in attendance. Move out of dangerous area.

IF INHALED-No adverse effects anticipated by this route of exposure due to lack of volatility. Dust may cause upper respiratory irritation.

IN CASE OF SKIN CONTACT-If repeated or prolonged contact with skin caused irritation, wash skin with plenty of flowing water.

IF SWALLOWED-Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

ACUTE HEALTH HAZARDS-Note to physician-No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

CHRONIC HEALTH HAZARDS-none known

4.3 Indication of any immediate medical attention and special treatment needed (PAGE 3)

No data available

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5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media-Water fog or fine spray. Dry chemical fire extinguisher.

5.2 Special hazards arising from the substance or mixture.

5.3 Advice for firefighters-Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information-

-no data available

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures-

-Use personal protective equipment.

-Avoid breathing vapors, mist or gas.

-Ensure adequate ventilation.

-For personal protection see section 8.

6.2 Environmental precautions-

-Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up-

-Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections-

-For disposal see section 13

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling- -Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities-

-Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)-

-Apart from the uses mentioned in section 1.2, there are no other specific uses stipulated.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENT	CAS-No.	VALUE	CONTROL PARAMETERS	BASIS
Glycerol	56-81-5	TWA	10 mg/m3	USA.OSHA-TABLE Z-1 Limits for Air Contaminents-1910-1000
		TWA	5 mg/m3	USA.OSHA-TABLE Z-1 Limits for Air Contaminents-1910-1000
		TWA	10 mg/m3	USA.ACGIH Threshold Limit Values TLV
	Remarks	Upper Respiratory Tract irritation See Appendix D-Substances with No Established RELs		
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA)-Table Z-1 Limits for Air Contaminants

NOTE:-The above information applies to Glycerol-(CAS-No.56-81-5/EC-No.200-289-5), which is an ingredient in ANTI-FOG. It should be noted that Glycerol consists of less than .02% of Anti-Fogs total make-up when Anti-Fog is in its completed product form. The use pattern and exposure in the workplace are generally not consistent with those experienced by the consumer.

8.2 Exposure controls

Appropriate engineering controls-

-Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment-

-Eye/face protection-

- Eye protection is only needed when material is heated or mixed in the workplace. This does not apply to consumer use. Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection-

-Skin protection is only needed when material is heated or mixed in the workplace. This does not apply to consumer use. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands after use.

Body protection-

-Body protection is only needed when material is heated or mixed in the workplace. This does not apply to consumer use. Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the substance at the specific workplace.

Respiratory protection-

-Respiratory protection is only needed when material is heated or mixed in the workplace. This does not apply to consumer use. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form-solid
Color-light green
b) Odor little or no fragrance
c) Odor Threshold little or no data available
d) pH 3-4pH
e) Melting point/ Melting point/range 38C 100F freezing point Freezing point/range 0C 32F
f) Initial boiling point 225F
g) Flash point no data available
h) Evaporation rate no data available
i) Flammability (solid/gas) no data available (PAGE 5)

j) Upper/lower flammability or explosive limits no data available (PAGE 6)
k) Vapor pressure no data available
l) Vapor density no data available

m) Relative density no data available

n) Water solubility soluble (10%)

o) Partition co-efficient no data available octanol/water

p) Auto-ignition no data available temperature

q) Decomposition temp no data available

r) Viscosity no data available

s) Explosive properties no data available

t) Oxidizing properties no data available 9.2 Other Safety information

n/a

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10. STABILITY AND REACTIVITY

10.1 Reactivity-

-no data available

10.2 Chemical stability-

-product is stable

10.3 Possibility of hazardous reactions-

-no data available

10.4 Conditions to avoid-

-avoid conditions at or near freezing/product decomposes.

-avoid conditions above 90F/product melts. (PAGE 7)

-(NOTE:-There are no known conditions of hazardous decomposition.)

10.5 Incompatible materials-

-Strong bases, Strong oxidizing agents

10.6 Hazardous decomposition products-

- other decomposition products-no data available

-In the event of fire-see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects-

-Acute toxicity

LD50 Oral-rat 12,600 mg/kg-

Inhalation-no data available

LD50 Dermal-rabbit-> 10,000 mg/kg-

No data available

Skin corrosion/irritation

Skin-rabbit-

Result: Mild skin irritation-24 h

Serious eye damage/eye irritation

Eyes-rabbit

Result-Mild Eye irritation-24 h

Respiratory or skin sensitization-

no data available

Germ cell mutagenicity-

No data available

Carcinogenicity

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: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

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.

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

Additional Information-

Excessive exposure to glycerin may cause increased fat levels in blood. In animals, effects have been reported on the following organ-Gastrointestinal tract. Did not cause cancer in laboratory animals.

Did not cause birth defects or any other fetal effects in lab animals. In Vitro genetic toxicity studies were negative. Prolonged or repeated exposure may cause- Nausea, Headache, Vomiting

Kidney-Irregularities-Based on Human Evidence

Section 11 NOTES-The use pattern and exposure in the workplace are generally not consistent with those experienced by the consumer. This SDS may contain additional health hazard information not found on the product label.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity-

No data available

12.2 Persistence and degradability-

No data available

12.3 Bio accumulative potential-

No data available (PAGE 8)

12.4 Mobility in soil- (PAGE 9)

No data available

12.5 Results of PBT and vPvB assessment-

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other Adverse effects-

No data available

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods-

Product

Do not dump into any sewers, on the ground or into any body of water. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Offer surplus and nonrecyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of an unused product

14.TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

NOTE:-This information is not intended to convey all specific or operational requirements/information to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative.

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15. REGULATORY INFORMATION

REACH No.-

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SARA 302 Components

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

SARA 313 Components

SARA 313: This material does not contain any chemical components with know CAS number that exceed the threshold (DeMinimis) reporting levels established by SARA Title lll, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

One of the CAS's contained in World Optical Anti-Fog brand is Glycerol CAS-No.56-81-5 and therefore is listed in the following state Right to Know Components lists:

Massachusetts Right to Know Components	CAS-No.
Glycerol	56-81-5

Pennsylvania Right to Know Components

Glycerol	56-81-5

New Jersey Right to Know Components

Glycerol	56-81-5

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16. OTHER INFORMATION

HMIS Rating-

Health hazard	0
Chronic health hazard	*
Flammability	1
Physical hazard	0

NFPA Rating-

Health hazard	0
Fire hazard	1
Reactivity hazard	0

OTHER INFORMATION: All information appearing herein is based upon data obtained from the manufacturer(s) and/or technical sources. While the information is believed to be accurate, World Optical makes no representations as to its accuracy or sufficiency. Conditions of use are beyond World Optical's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.