

Issuing Date: February 17, 2015 Revision Date: August 10, 2015 Revision Number: 1

1. Identification of the Substance/Preparation and the Company Undertaking

GHS Product Identifier

Product Name HygenX Anti-Fog Cleaner

Other Means of Identification

Part Number XFOG

Formula Code SKM

Synonyms none

Recommended use of the chemical and restrictions on use

Recommended Use Cleans lenses and applies anti-fog properties on surfaces.

Uses Advised Against No information available

Supplier's Details

Supplier Address

HamiltonBuhl Electronics
80 Little Falls Road
Fairfield, NJ 07004
Telephone: 800-631-0868

Emergency Telephone Number

Chemtrec US 800-424-9300 International 703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008



GHS02 Flame

Flam. Liq. 4 H226 Flammable Liquid and Vapor



GHS06 Skull and crossbones

Acute Tox. 2 H303 May be harmful if swallowed



GHS07

Eye Irrit. 2 H320 Causes eye irritation
Skin Sens. 2 H315 Causes skin irritation
STOT SE 3 H335+H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Label elements:

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard Pictograms:



GHS02 GHS06 GHS07

Signal word: Warning!

Hazard Determining components of labeling: Dioctyl sodium sulfosuccinate, propylene glycol, isopropanol, DM DM hydantonin

Hazard Statements

H226 Flammable Liquid and Vapor
H303 May be harmful if swallowed
H320 Causes eye irritation
H315 Causes skin irritation
H335/H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P301/P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305/P351/P338 IF IN EYES: Rinse continually with water for several minutes. Remove contact lenses if easy to do so. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings

Health: 1
Fire: 2
Reactivity: 0

HMS ratings

Health: 1
Fire: 2
Reactivity: 0

Other Hazards:

Results of PBT and vPvB assessment

PBT: Data not available

vPvB: Data not available

Classification of the Chemical:

Non viscous, clear liquid

Other Hazards Not Otherwise Classified:

No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Description	% Range
CAS: 57-55-6 EINECS: 200-338-0	Propylene glycol	0 – 1.0%
CAS: 6440-58-0 EINECS: 229-222-8	DM DM Hydantonin	0 – 0.5%
CAS: 577-11-7 EINECS: 209-406-4	Dioctyl sodium sulfosuccinate	1 – 2%
CAS: 67-63-0 EINECS: 200-661-7	Isopropanol	4 – 5%

4. FIRST AID MEASURES

General Advice: In the case of accident or if you feel ill, seek medical attention.

Inhalation: Avoid breathing vapors or mists. Move to fresh air. Seek medical attention.

Skin contact: Wash immediately with soap and water. If skin irritation persists, seek medical attention.

Eye contact: Rinse thoroughly with water for at least 15 minutes and seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Most Important Effects/Symptoms: See section 2.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Not applicable

Specific hazards: Eye and Skin irritant

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Extinguishing media which must not be used for safety reasons: Not applicable

Specific methods: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Avoid contact with skin and eyes
Environmental precautions: Local authorities should be advised if significant spillages cannot be contained. Do not contaminate surface water. Prevent further leakage or spillage.
Methods for cleaning up: Package all material in plastic, cardboard or metal containers for disposal in compliance with all federal, state and local regulations.

7. HANDLING AND STORAGE

Handling precautions: Obtain special instructions before use. Be sure to use personal protective equipment. Use in well-ventilated location. Wash hands thoroughly after use.
Storage: Store at room temperature in the original container. Do not freeze. Avoid any and all ignition sources.
Incompatible products: None reasonably foreseeable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS No.	ACGIH TLV		OSHA PEL		Other Expo. Limits
	TWA	STEL	TWA	STEL	

Exposure limits for product unknown

Exposure Controls

Ventilation and engineering measures: Use only in well-ventilated areas. Apply technical measures to comply with occupational exposure limits.

Respiratory Protection: If airborne concentrations are above the permissible exposure limit, use NIOSH-approved respirators. Respirators should be chosen in accordance with OSHA (29 CFR 1910.134)

Skin Protection: Protective gloves should be worn, as well as a set of resistant coveralls and boots.

Eye Protection: Protective eyewear/goggles must be worn and be tight-fitting; must also have side-shield.

Other Protective Equipment: Eyewash stations and safety showers should be ready for use and nearby the handling area.

General Hygiene: Avoid contact with skin, eyes, and clothing. Remove and launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

pH @70° F: 6 – 7

Water Solubility: infinite

Vapor density: >1 (air = 1)

Evaporation rate: <1 (butyl acetate = 1)

Viscosity: Not determined (@ 100 °C)

Specific gravity: 0.98

Flash point: 155 F

Color: Clear

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

Conditions to avoid: Extremes of temperature and direct sunlight.

Materials to avoid: Strong acids and oxidizing agents.

Hazardous decomposition products: Aqua Ammonia may degrade to Nitric Oxide

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry – inhalation: YES

Routes of entry – skin/eye: YES

Routes of entry – ingestion: NO

Carcinogenicity:

Product not believed to be carcinogenic

Mutagenicity:

Not expected to be mutagenic.

Reproductivity:

Not believed to have reproductive effects on humans.

Sensitization to material:

Product may cause respiratory sensitization if mists are inhaled

Specific target organ effects:

Product not known to affect any target organs. Product is a Skin Irritant (Cat. 2), Eye Irritant (Cat. 2B), and an Aspiration Hazard (Cat. 1)

Medical conditions aggravated by overexposure:

Existing skin and eye conditions.

Toxicological data:

Not Applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients and overall product are not considered acutely toxic (by GHS) for the environment, or are present in such low concentrations that they do not affect environmental toxicity.

Persistence and Degradability:

Product is believed to fully degrade, though testing has not confirmed this.

Bioaccumulation Potential:

Product itself has not been tested; believed to lack bioaccumulation potential.

Mobility in Soil:

The product itself has not been tested; believed to not permeate easily throughout topsoil.

Other Adverse Environmental Effects:

None reasonably foreseeable.

13. DISPOSAL CONSIDERATIONS

Handling for disposal:

Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures found in sections 7 and 8.

Methods of disposal:

Dispose in accordance with all applicable federal, state, provincial, and local regulations. Contact your local state, provincial, or federal environmental agency for specific rules.

RCRA:

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state, and federal environmental agencies

14. TRANSPORT INFORMATION

General Transportation Statement

DOT non-bulk shipments non-regulated

IATA N/A

IMDG. N/A

Other information:

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements and mode-specific or quantity-specific shipping requirements

15. REGULATORY INFORMATION

Components TSCA DSL/NDL Canada - WHMIS Classification

CAS No.	Description	% Range
N/A	N/A	N/A

*Exact concentrations are withheld to protect the proprietary value of the formula/product.

16. OTHER INFORMATION

SKM has been advised by attorney that the OSHA Hazard Communication Standard does not apply to the SKM products listed in this SDS. The explanation for the exemption is contained in 29 CFR 1910.1200(b)(6)(ix) as amended July 1, 2002 per the code of Federal Regulations. This information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the Hazard Communication Standard covers the product nor is this SDS meant to comply with all requirements of the Hazard Communication Standard.

End of Safety Data Sheet