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SAFETY DATA SHEET

01 - IDENTIFICATION

MATERIAL NAME

ZERO-FOG

Use: Anti-fog treatment for lensware

Vendor: KLEARGO INC.
Address : 5555 Bois Franc
City : St-Laurent
Prov: Qc.
Postal Code: H4S 1B1
Tel: 514 335-6585 Fax:514 335-9120

02 - HAZARD IDENTIFICATION

GHS (WHMIS 2015) CLASSIFICATION:

EYE IRRITATION - CATEGORY 2B
SKIN IRRITATION - CATEGORY 3
REPRODUCTIVE TOXICITY - CATEGORY 1B

GHS PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H320 Causes eye irritation.
H316 Causes mild skin irritation.
H360 May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS (PREVENTION):

P280 Wear protective gloves/protective clothing/eye protection/face protection (when handling larger quantities).
P264 Wash exposed skin thoroughly after handling.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

PRECAUTIONARY STATEMENTS (RESPONSE):

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313 IF eye irritation persists: Get medical advice/attention.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.
 P308+P313 IF exposed or concerned: Get medical advice/attention.

PRECAUTIONARY STATEMENTS (STORAGE AND DISPOSAL):

P405 Store locked up.

P501 Dispose of contents/container in accordance with municipal/ provincial/state/federal regulations.

03 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CONC.	#CAS
ISOPROPYL ALCOHOL	3-7%	64-17-5
N-METHYL-2-PYRROLIDONE	0.1-1%	872-50-4

The other ingredients present in the composition do not constitute a health hazard or a physical hazard as per GHS 2015 regulations.

04 - FIRST AID MEASURES

SKIN: Wash with plenty of water for several minutes removing contaminated clothing. Wash clothing prior to reuse.

EYES: Rinse cautiously with water for 15 minutes, lifting upper and lower lids to ensure thorough washing. Remove contact lenses if present and easy to do - continue rinsing. If irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting, give lots of water to drink. Never give anything by mouth to a person that is unconscious or convulsive. Take the person to a comfortable place and position, keep person warm. If spontaneous vomiting occurs, have patient lean forward or turn patient to the side to avoid aspiration into lungs. GET MEDICAL ATTENTION.

INHALATION: Remove person to fresh air.

05 - FIRE FIGHTING MEASURES

General Information: **Combustible**

Extinguishing Media: The best means possible to extinguish fire. Use water fog, sand, dry chemical, or alcohol-resistant foam to extinguish.

Advice for firefighters: Wear self-contained breathing apparatus and full protective equipment for firefighting if necessary.

Further information: Use water spray to cool unopened containers.

Auto ignition Temperature: N/AV.
 Flash Point: > 60°C
 Combustion products: Carbon oxides, nitrogen oxides and potassium oxides.
 Explosion Limits: Lower: N/AV Upper: N/AV

06 - ACCIDENTAL RELEASE MEASURES

See Sect. 2 & 8 for precautions. Stop leak if it is safe to do so. Recuperate if possible. Small spills to be absorbed with paper. Large Spills: Contain spill. Collect spilt liquid with inert absorbent materials (such as clay) into a suitable container for disposal and dispose of in accordance with regulations. Prevent runoff into pipes, sewers and waterways. Avoid contact with sparks or open flames. Maintain good personal hygiene. Wash affected area with water. Caution, affected areas may be slippery.

07- HANDLING AND STORAGE

HANDLING EQUIPMENT AND PROCEDURES: See Sect. 2 & 8 for precautions. Always maintain a good personal hygiene.

STORAGE REQUIREMENTS: Keep container closed when not in use. Avoid accidents. Do not drop container. Keep in cool, dry place away from sparks, flames and incompatible substances.

08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

GLOVES: Household rubber or neoprene gloves are preferred when handling large quantities.

EYES: Safety glasses preferred when handling large quantities or when splashing may occur.

RESPIRATORY PROTECTION: None needed in well-ventilated areas. Where there is poor ventilation and when handling large quantities, approved NIOSH respirator mask with cartridge for organic solvent (alcohol).

PROTECTIVE CLOTHING: None needed. Impervious clothing recommended for handling large quantities where splashing may occur.

ENGINEERING CONTROLS (enclosed process, mechanical, etc.):
 Adequate ventilation. Potable eye wash station or nearby potable water source for washing and cleaning.

09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Liquid, clear, colorless
Odor :	light alcoholic
pH:	7.0 +/- 0.5
Melting point/Freezing point °C	~0°C
Initial Boiling point and boiling range°C	N/AV
Flash point °C	>60°C
Evaporation rate :	N/AV
Flammability in the case of solids and gases	N/AV
Upper and lower flammability or explosive limits	N/AV
Vapour pressure:	N/AV
Vapour density:	N/AV
Relative density :	0.99 +/- 0.02
Solubility in water	Soluble
Partition coefficient - n-octanol/water:	N/AV
Auto-ignition temperature:	N/AV
Decomposition temperature:	N/AV
Viscosity :	N/AV

10 - STABILITY AND REACTIVITY

Chemical stability (Y/N):	Yes
If no, in what conditions?:	
INCOMPATIBILITY WITH OTHER SUBSTANCES (Y/N): YES	
Conditions to Avoid:	Excessive heat, sparks and flames.
Incompatibilities with Other Materials:	Strong oxidizing agents/ reducing agents.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides and potassium oxides.
Hazardous Polymerisation:	Will not occur.

11 - TOXICOLOGICAL INFORMATION

LD 50 OF MATERIAL (define animal species and route). ATE Mix >2,000 mg/Kg (rat/oral) , > 2,000 mg/kg (dermal/rabbit)
 LC 50 OF MATERIAL (define animal species and route). ATE Mix > 20.0 mg/l (inhalation/4hr/vapour)

Epidemiology:

No particular data available. Compounds can be harmful in case of ingestion.

Mixture has not been tested, but does not contain any ingredients known to be classified for:

Skin Sensitizer, Carcinogenicity, Germ Cell Mutagenicity, Teratogenicity, Aspiration Hazard, STOT-RE

Mixture contains less than 1% ingredient classified as REPRODUCTIVE TOXICITY - Category 1B

Mixture contains less than the cut-off concentration 20% of ingredient classified as STOT- Single Exposure Category 3

Health Hazards Not Otherwise Classified: No data available.

EFFECTS OF ACUTE EXPOSURE:

SKIN:	May cause skin irritation although unlikely.
EYES:	Ocular contact may cause irritation. Misted product may be irritating to eyes.
INGESTION:	May cause abdominal pain. May also cause nausea, vomiting, faintness, drowsiness, dizziness, lack of coordination, altered gait. MAY BE HARMFUL IF SWALLOWED.
INHALATION:	Vapour may be irritating. Increased concentration inhalation may cause nausea, vomiting, drowsiness, dizziness. Symptoms depend on duration and level of exposure.

EFFECTS OF CHRONIC EXPOSURE:

SKIN:	May cause defatting of skin on prolonged or repeated contact.
INGESTION:	Long term repeated oral exposure to isopropyl alcohol may result in the development of progressive liver injury with fibrosis.

SECTION 12 - ECOLOGICAL INFORMATION

Readily Biodegradable. Rapid volatilization. Bioaccumulation is unlikely. May be harmful to aquatic life. For large quantities: Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations, state regulations and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to satisfaction of authorities.

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not contaminate or pollute by careless disposal practices. Return empty containers to a disposal site or to a reconditioner for proper recycling. All other waste is to be disposed of according to municipal, provincial, state or federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Product not regulated for road transport.

SECTION 15 - REGULATORY INFORMATION

WHMIS 2015 (GHS) classification:

EYE IRRITATION - CATEGORY 2B

SKIN IRRITATION - CATEGORY 3

REPRODUCTIVE TOXICITY - CATEGORY 1B

SECTION 16 - ADDITIONAL INFORMATION

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Date : 29 February 2020

ADDITIONAL NOTES AND REFERENCES: N/AV = not available N/AP= not applicable N/D = not determined.

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