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SAFETY DATA SHEET

01 - IDENTIFICATION

MATERIAL NAME

AR-99 (RTU)

Use: Lens Cleaner, ready-to-use.

Vendor: : KLEARGO INC.
Address : 5555 Bois Franc
City :St-Laurent Prov: Qc. Postal Code: H4S 1B1
Tel: 514 335-6585 Fax:514 335-9120
EMERGENCY PHONE NUMBER: CANUTEC at 1-888-CAN-UTEC (226-8832) or 613-996-6666

02 - HAZARD IDENTIFICATION

GHS (WHMIS 2015) CLASSIFICATION:

FLAMMABLE LIQUIDS - CATEGORY 4
EYE IRRITATION - CATEGORY 2A

GHS PICTOGRAM:



SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H227 Combustible liquid.
H319 Causes serious eye irritation

PRECAUTIONARY STATEMENTS (PREVENTION):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash exposed skin thoroughly after handling.

PRECAUTIONARY STATEMENTS (RESPONSE):

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
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.

PRECAUTIONARY STATEMENTS (STORAGE AND DISPOSAL):

P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P501 Dispose of contents/container in accordance with municipal/ provincial/federal regulations.

03 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CONC.	#CAS
ISOPROPYL ALCOHOL	1-5%	67-63-0

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 15 minutes removing contaminated clothing.
EYES:	Rinse with water for 20 minutes, lifting upper and lower lids to ensure thorough washing. If irritation persists, seek medical attention.
INGESTION:	If patient is conscious, DO NOT induce vomiting, give lots of water to dilute chemical. If patient is unconscious, do not induce vomiting or give anything by mouth. 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 IMMEDIATE MEDICAL ATTENTION.
INHALATION:	Remove person to fresh air.

05 - FIRE FIGHTING MEASURES

Flammability: Combustible liquid.
If yes, under what conditions?:

Means of extinction (procedure): Carbon dioxide (CO₂), chemical powder, or alcohol resistant foam .
Use water fog to cool containers.

Flash point (°C): >60C closed cup
Auto ignition temperature (°C): N/AV
Upper explosion limit (%vol): N/AV Lower explosion limit (% vol): N/AV.

06 - ACCIDENTAL RELEASE MEASURES

See Sect. 2 & 8 for precautions. Maintain good personal hygiene.

For minute spills, rinse with water.

For small spills, or to absorb residue, use an inert absorbent material (paper, clay, sand) and remove to non-leaking suitable containers. Flush area with water to remove trace residue.

Large Spills:

Eliminate all ignition sources. Isolate hazard area and restrict access.

Handling equipment must be grounded. Try to work upwind from spill. Wear appropriate breathing apparatus (if applicable). Stop leak, only if it is safe to do so. Dike and contain land spills. Contain water spills by booming. Use water fog to knock down vapors. Contain run-off and prevent from entering into waterways. For large spills remove by mechanical means and place in suitable container. Wash affected area with water.

Floors may be slippery after washing. Notify fire and environmental authorities for large spills.

07 - HANDLING AND STORAGE

Handling procedures and equipment: See Sect. 2 & 8 for hazards and precautions. Maintain good personal hygiene. Do not cut, drill, grind or weld on or near this container. Use adequate ventilation. Empty product containers may contain residue and label warnings must be adhered to even when container is empty. Never use pressure to empty drums. Air-dry contaminated clothing in a well-ventilated area before laundering.

Storage requirements: Store in a cool, dry, well-ventilated area away from all incompatibles. Avoid damage to containers. Keep container closed when not in use. Aluminum containers are not recommended for storage.

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.

09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:	clear liquid
Odor :	Characteristic alcohol odor
pH :	7 +/- 1
Melting point/ Freezing point °C:	< 0C
Initial Boiling point and boiling range °C	N/AV
Flash point °C	>60
flammability in the case of solids and gases	N/AV
upper and lower flammability or explosive limits	N/AV
Vapor pressure:	N/AV
Vapor density:	N/AV
Relative density :	0.99
Evaporation rate :	>water
Boiling point °C :	< 100
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, under what condition?:	Excessive heat, sparks and flames.
Incompatibility with other substances:	Strong oxidizing agents. Acids. Aluminum at high temperatures.
Under what conditions?:	On contact.
Hazardous decomposition products :	Carbon dioxide (CO ₂).
Hazardous polymerization:	Will not occur.

11 - TOXICOLOGICAL INFORMATION

LD 50 OF MATERIAL (define animal species and route). ATE Mix >2,000 mg/Kg (rat/oral)

ATE Mix > 2,000 mg/kg (dermal/rabbit)

LC 50 OF MATERIAL (define animal species and route). ATE Mix > 20.0 mg/l (inhalation/4hr/vapor)

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 the following: Skin Sensitizer, Germ Cell Mutagenicity, Teratogenicity, Carcinogenicity, Reproductive Toxicity, Aspiration Hazard or Specific Target Organ Toxicity-Repeated Exposures.

Mixture contains less than 5% of ingredient classified as STOT- Single Exposure Category 3

Health Hazards Not Otherwise Classified: No data available. It is generally known that pregnant and lactating women should avoid prolonged or repeated exposure to most chemical solvents.

EFFECTS OF ACUTE EXPOSURE:

SKIN:	May cause skin defatting on prolonged contact. .
EYES:	Ocular contact may cause severe irritation. Vapors may be irritating to eyes.
INGESTION:	May cause abdominal pain. May also cause nausea, vomiting, faintness, drowsiness, dizziness, lack of coordination, altered gait.
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:

INGESTION: Long term repeated oral exposure to alcohol may result in the development of progressive liver injury with fibrosis.

Medical Conditions Aggravated by Overexposure: Repeated exposure to alcohol may exacerbate liver injury produced from other causes.

12 - ECOLOGICAL INFORMATION

Biodegradable. Rapid volatilization. No other data available.

For release of large quantities in environment: May be harmful to aquatic life. 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 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.

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, or federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Product not regulated for transport.

SECTION 15 - REGULATORY INFORMATION

GHS (WHMIS 2015) CLASSIFICATION:

FLAMMABLE LIQUIDS - CATEGORY 4
EYE IRRITATION - CATEGORY 2A

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE HAZARDOUS PRODUCTS ACT AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE HPR

SECTION 16 - ADDITIONAL INFORMATION

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ADDITIONAL NOTES AND REFERENCES:

N/AV = not available N/AP= not applicable N/D = not determined.

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