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SAFETY DATA SHEET

01 - IDENTIFICATION

MATERIAL NAME

AR STRIPPER

Use & Description: Anti-Reflective Coating Stripper.

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:

ACUTE TOXICITY ORAL - CATEGORY 3
ACUTE TOXICITY DERMAL - CATEGORY 2
ACUTE TOXICITY INHALATION - CATEGORY 4
SKIN CORROSION/IRRITATION - CATEGORY 1b
CORROSIVE TO METALS - CATEGORY 1

GHS PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H301 Toxic if swallowed.
H310 Fatal in contact with skin.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.

PRECAUTIONARY STATEMENTS (PREVENTION):

P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe fume/gas/mist/vapors/spray.
P234 Keep only in original container.

PRECAUTIONARY STATEMENTS (RESPONSE):

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P321	Specific treatment: Rapid response is essential. Application or administration of Calcium Gluconate 2.5% to counter fluoride toxicity can be critically beneficial.
P330	Rinse mouth.
P302+P352	IF ON SKIN: wash with plenty of water.
P310	Immediately call a POISON CENTER or doctor/physician.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/ if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P363	Wash contaminated clothing before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P390	Absorb spillage to prevent material damage.

PRECAUTIONARY STATEMENTS (STORAGE AND DISPOSAL):

P405	Store locked up.
P406	Store in corrosive resistant/ container with a resistant inner liner.

03 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CONC.	#CAS
Hydrogen Fluoride	1-5%	7664-39-3
Sulphuric Acid	7-13%	7664-93-9
Methyl Ethyl Ketone	19-30%	78-93-3

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

EYES:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do - continue rinsing. Get medical attention!
SKIN:	Get Medical Attention! Flush skin with plenty of water, while removing contaminated clothing and shoes. Wash thoroughly before reuse. Contaminated footwear or clothing that cannot be properly washed should be disposed. Physician should apply calcium gluconate 2.5% gel or cream or intravenous injection to affected areas to counter toxicity of fluoride burns. Alternatively iced benzalkonium chloride 0.13% soaks have been used for dermal burns.
INGESTION:	If victim is conscious, have the victim drink milk. Get medical aid immediately. Never induce vomiting or give anything to drink to an unconscious or convulsive person. See Note to physician below.
INHALATION:	Remove from exposure to fresh air immediately. If respiratory irritation occurs, seek medical attention.
Note to Physician: There is no antidote for hydrofluoric acid (HF) toxicity. Calcium- or magnesium-containing antacids (which bind fluoride ion) have been suggested for use in the treatment of ingestion exposure. Quaternary ammonium compounds or calcium-containing gels may be used topically in the treatment of skin burns. The use of iced benzalkonium chloride 0.13% soaks has been advocated as the treatment of choice for both concentrated and dilute dermal hydrofluoric acid (HF) exposure. Hemodialysis has been recommended for severe systemic toxicity.	

05 - FIRE FIGHTING MEASURES**General Information:**

Extinguishing Media:	The best means possible to extinguish surrounding fire. Dry chemical, carbon dioxide, alcohol-resistant foam. Cool closed containers with water spray.
Special protective equipment:	Firefighters should be equipped with self-contained breathing apparatus and protective suit.
Auto ignition Temperature:	N/AP.
Flash Point:	Combustible.
Combustion products:	Oxides of carbon, sulphur and nitrogen. Hydrofluoric Acid gas.
Explosion Limits,	
Lower:	N/AP
Upper:	N/AP

06 - ACCIDENTAL RELEASE MEASURES

See Sect. 2 & 8 for precautions. Stop leak if it is safe to do so. Recuperate if possible. For small leaks or spills, absorb with paper and For large spills and leaks: Remove ignition sources Absorb the product with inert absorbent material such as clay. Add either Calcium Carbonate, Calcium Oxide or Calcium hydroxide to neutralize the spill. Collect into a suitable Polyethylene container for disposal. Wash affected area with water after neutralization.

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, open flames and incompatible substances. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Respect label precautions for empty containers. **DO NOT** remove labels off of empty containers. **DO NOT** re-use container for other purposes once emptied. **DO NOT** store in metal or glass containers. **DO NOT** handle with metal or glass equipment. Ideally store in HDPE containers.

08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

GLOVES (type): Yes, chemical resistant gloves that extend past the wrist when handling.
EYES: Safety goggles preferably, but at the minimum safety glasses should be used.
RESPIRATORY PROTECTION: None required if space is properly ventilated when handling small quantities infrequently. If handling frequently, or handling larger volumes (100ml+), or if handling in poorly ventilated areas, use NIOSH approved respirator with acid and organic vapor cartridge.
PROTECTIVE CLOTHING: Impervious boots and apron preferred where splashing may occur or when handling large quantities.
ENGINEERING CONTROLS (Enclosed process, mechanical, etc.):
 Adequate ventilation. Nearby potable water source for washing and cleaning. It is recommended to have available on hand a tube of Calcium Gluconate 2.5% Gel or Cream in case of accidental exposure for use until victim is taken for medical assessment.

09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Liquid, clear, colorless
Odor :	acidic - ketone solvent
pH:	0-1
Melting point/Freezing point °C	< 0°C
Initial Boiling point and boiling range °C	N/AV
Flash point °C	N/AV
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 :	N/AV
Solubility in water	Miscible
Partition coefficient - n-octanol/water:	N/AV
Auto-ignition temperature:	N/AP
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: Open flames and sparks. Keep away from direct sunlight.

Incompatibilities with Other Materials: Strong acids and bases. Strong oxidizing or reducing agents. Cyanides. Do not mix with different types of chlorinating chemicals. Will attack glass and metal. May attack certain plastics, rubbers and coatings.

Hazardous Decomposition Products: Oxides of Carbon, sulphur and nitrogen. Hydrofluoric Acid gas.

Hazardous Polymerisation: Will not occur.

11 - TOXICOLOGICAL INFORMATION

LD 50 OF MATERIAL (define animal species and route). ATE mix: 50-300 mg/Kg (rat/oral) , 50-200 mg/kg (dermal/rabbit)

LC 50 OF MATERIAL (define animal species and route). ATE Mix : 10.0-20.0 mg/l (inhalation/4hr/rat/vapour)

Epidemiology:

Mixture contains less than 20% of ingredient classified as:

Specific Target Organ Toxicity, Single Exposure Category 3, Respiratory System.

12 - ECOLOGICAL INFORMATION

The product has not been tested but efforts should be made to prevent product from entering soil, water systems and groundwater as individual ingredients may pose risk of adverse effects/ ecotoxicity.

13 - DISPOSAL CONSIDERATIONS

See Section 02.

WASTE DISPOSAL: Do not contaminate or pollute by careless disposal practices.

Return empty drums, pails or packaging to a disposal site or to a re-conditioner for proper recycling. **Do NOT** remove identification labels off of empty containers so as not to expose others to hazards. All other waste is to be disposed according to government regulations in your area. Dispose of in a manner consistent with federal, state, provincial and municipal regulations.

14 - TRANSPORT INFORMATION

TDG Classification

UN 2922
CORROSIVE LIQUID, TOXIC, N.O.S.
Class 8 (6.1) PG II

Non considered dangerous goods for road transport in Canada when packaged in Limited Quantity 0.5L (500 ml) and shipped according to Limited Quantity Exemption criteria.

15 - REGULATORY INFORMATION

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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

16 - OTHER INFORMATION:

PREPARATION DATE: 4 August 2021

Version: WHMIS 2015 v.1

Prepared by : MSDS Coordinator

N/AV = not available

N/AP =not applicable

N/D = not determined

The above given information has been collected from reputable, informed and sure sources. We offer this information to our clients in good faith and to the best of our knowledge. It is possible that additional precautions would be required for the handling, use, or storage of this product. We decline and reject all responsibility for the content, accuracy, for loses or injuries that could result due to the use of this product according, or consequent to the information supplied, or label claims.

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