



MATERIAL SAFETY DATA SHEET

I - IDENTIFICATION AND USE

PRODUCT NAME: ALUMISHEEN
PRODUCT USE: ALUMINUM CLEANER AND BRIGHTENER
SUPPLIER: ECO-CHOICE INDUSTRIES INC.
5-25 Planchet Road
Concord, ON L4K 2C5
TEL: (905) 532-9100
CANUTEC: (613) 996-6666 (24HRS)

II - HAZARDOUS INGREDIENTS OF PRODUCT

<u>CHEMICAL IDENTITY</u>	<u>CAS. UN. NA. NO</u>	<u>APPROX. CONC.</u>	<u>LD50/LC50 (RAT ORAL)</u>
HYDROFLUORIC ACID	7664-39-3	1-5	N/A 544ppm/4hr
PHOSPHORIC ACID	7664-38-2	7-13	1520 mg/kg N/D
BUTYL CELLOSOLVE	111-76-2	3-7	1480 mg/kg 700ppm/4hr
NONYL PHENOL ETHOXYLAE	9016-45-9	3-7	3000 mg/kg N/D

III - PHYSICAL DATA FOR PRODUCT

PHYSICAL STATE: LIQUID
ODOUR & APPEARANCE: CLEAR/NO ODOUR
ODOUR THRESHOLD: N/D
VAPOUR PRESSURE: N/D
VAPOUR DENSITY(AIR=1): N/D
EVAPORATION RATE: 1
BOILING POINT: 100 DEG. C
FREEZING POINT: N/A
SOLUBILITY IN WATER: COMPLETE
PH: 10% SOLUTION 2
SPECIFIC GRAVITY: 1.1 +/- .05

IV - FIRE AND EXPLOSION HAZARD

CONDITIONS OF FLAMMABILITY: NONE
MEANS OF EXTINCTION: WATER OR SUITABLE AGENT FOR ADJACENT FIRES
KEEP CONTAINERS COOL BY WATER SPRAY USE SELF
CONTAINED BREATHING APPARATUS.
HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN FLOURIDE GAS, PHOSPHORIC OXIDE AND
HYDROGEN GAS MAY EVOLVE WHEN IN CONTACT WITH
METAL.

V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE
INCOMPATIBILITY MATERIALS: STRONG ALKALIES AND OXIDIZERS
CONDITIONS TO AVOID: HIGH TEMPERATURES
HAZARDOUS DECOMPOSITION: SAME AS COMBUSTION
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

VI - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:	SKIN CONTACT:	YES
	SKIN ABSORPTION:	YES
	EYE CONTACT:	YES
	INGESTION:	YES
	INHALATION:	YES
EFFECTS OF ACUTE EXPOSURE TO MATERIAL:	IRRITATION TO RESPIRATORY SYSTEM AND EYES POISONOUS AND CORROSIVE EFFECT TO SKIN.	
EFFECTS OF CHRONIC EXPOSURE:	BONE & JOINT CHANGES IN HUMANS (FLUOROSIS)	
IRRITANCY OF MATERIAL:	MODERATE	
PREPRODUCTIVE TOXICITY:	EMBRYOTOXIC IN RAT AT .47-4.9 mg/cu.m/4hr DAILY FOR DURATION OF GESTATION PERIOD.	
MUTAGENICITY:	N/D	

VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:	EYES:	GOGGLES
	HANDS:	RUBBER OR PVC
	RESPIRATORY:	NIOSH APPROVED IF NO VENTILATION AVAILABLE
	FOOTWEAR:	CHEMICAL RESISTANT
	ENGINEERING CONTROLS:	NORMAL VENTILATION
LEAK AND SPILL PROCEDURE:	SMALL SPILLS MAY BE NEUTRALIZED WITH LARGE AMOUNTS OF WATER. LARGER SPILL CONTAINED AND TRANSFERRED TO A NON METAL CONTAINER. AREA CAN BE NEUTRALIZED WITH SODA ASH AND RINSED.	
WASTE DISPOSAL:	DISPOSE IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS.	
STORAGE REQUIREMENTS:	KEEP CONTAINERS CLOSED IN A DRY, COOL PLACE.	
HANDLING PROCEDURES & EQUIPMENT:	HANDLE AS WITH ANY OTHER ACID PRODUCT	

VIII - FIRST AID MEASURES

EYE:	FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
SKIN:	REMOVE CONTAMINATED CLOTHING. FLUSH WITH WATER, IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
INGESTION:	DRINK LOTS OF WATER MILK IF AVAILABLE. SEEK MEDICAL ATTENTION IMMEDIATELY.
INHALATION:	REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION.

ADDITIONAL INFORMATION

WHMIS CLASSIFICATION:	D2A, B, E
TDG CLASSIFICATION	CLASS 8
PIN	CORROSIVE LIQUID UN PACKING GROUP II
HAZARD RATING:	HEALTH: 1 FIRE: 0 REACTIVITY: 0
HAZARD RATING SCALE:	0=MINIMAL, 1=MODERATE, 3=SERIOUS, 4=SEVERE, NA=NOT APPLICABLE N/D=NO DATA AVAILABLE, NE=NOT ESTABLISHED, NR=NOT REGULATED.

PREPARED BY: ECO-CHOICE INDUSTRIES LAB GROUP

DATE: JANUARY 2015

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