

# MATERIAL HEALTH & SAFETY DATA SHEET

(Key: > = Greater than; < = Less than)

## SECTION 1 - MATERIAL IDENTIFICATION & USE

Material Name: ALGAE & RUST STAIN REMOVER --- Code 380 & 381

Supplier: *Captain* PHAB Ltd.

Address: 613 Neal Drive  
Peterborough, Ontario.  
K9J 6X7

Emergency Telephone #: 705 748-0436

Chemical Name: OXALIC ACID                      Molecular Weight:

Chemical Family: ACID                      Trade Name/Synonyms: N/A

Chemical Formula:                      Material Use: REMOVAL OF ALGAE & RUST

## SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

<u>Hazardous Ingredients</u>	<u>Approximate Concentration %</u>	<u>C.A.S.N.A. or U.N. Numbers</u>	<u>"Exposure Limits"</u>	<u>LD<sub>50</sub> / LC<sub>50</sub> Specify Species &amp; Route</u>
OXALIC ACID	60-100	144762-7		LD <sub>50</sub> 375 mg/Kg
NON-HAZARDOUS INGREDIENTS	0-5			

## SECTION 3 - PHYSICAL DATA FOR MATERIAL

Physical State: SOLID    Specific Gravity: 1.65    Odour Threshold (ppm):    Odour & Appearance: NO ODOR/WHITE CRYSTALS

Vapour Pressure (mm/Hg)    Vapour Density (Air=1)    Evaporation Rate:    Boiling Point (°C):    Freezing Point (°C):

Solubility in Water (20°C): PARTIALLY    % Volatile (by volume):    pH:    Density (g/ml):    Coefficient of water/oil distribution:

## SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability: NO

Means of Extinction: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER, FOG.

Special Procedures: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS

Flash point(°C) & Method: N/AV    Upper explosion limit (% by volume): N/AV    Lower explosion limit (% by volume):N/AV

Auto Ignition Temperature(°C): N/AV    Flammability Classification:    Hazardous Combustion Products: OXIDES OF CARBON/CO; CO<sub>2</sub>

Chemical Sensitivity to Impact:    Rate of Burning:    Explosion Power:    Sensitivity to Static Discharge:

## SECTION 5 - REACTIVITY DATA

Chemical Stability: YES    Conditions:

Incompatibility to other substances: NO    Substances: ACIDS, OXIDIZING AGENTS

Reactivity and under what conditions: EXCESSIVE HEAT, SPARKS & OPEN FLAMES IN THE PRESENCE OF OXIDIZING MATERIALS.

Hazardous Decomposition Products: CO; CO<sub>2</sub>

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**SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT**

Route of Entry:: Skin Contact: ..X..... Skin Absorption:..... Eye Contact:..X.....  
Inhalation Acute:..X..... Inhalation Chronic:..... Ingestion:..X.....

SKIN: CAUSES CHEMICAL BURNS. EYE: SEVERE IRRITANT.

INHALATION: DUST CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT.

INGESTION; MAY BE HARMFUL OR FATAL IF SWALLOWED. CAUSES SEVERE IRRITATION AND INFLAMMATION OF THE MOUTH, THROAT AND STOMACH. SEVERE STOMACH PAINS WILL FOLLOW WITH POSSIBLE LOSS OF CONSCIOUSNESS.

Effects of Acute Exposure to Product:

Effects of Chronic Exposure to Product:

LD<sub>50</sub> of Product (Specify Species & Route) : Sensitization to Product:

LC<sub>50</sub> of Product (Specify Species): Exposure limits of Product:

Irritancy of Product: Synergistic materials:

Carcinogenicity:..... Reproductive effects: Teralogenicity:..... Mutagenicity:.

**SECTION 7 - PREVENTIVE MEASURES**

Personal Protective Equipment:

Gloves: RUBBER Respiratory: DUST MASK Eye: GOGGLES Footwear: BOOTS

Clothing IMPERVIOUS & PROTECTIVE.....Other:

Engineering Controls: VENTILATE ADEQUATELY

Leak & Spill Procedure: FLUSH TO SEWER WITH PLENTY OF CLEAN WATER

Waste Disposal:

Handling Procedures & Equipment: AVOID ALL SKIN & EYE CONTACT AND KEEP CONTAINER CLOSED.

Storage Requirements: KEEP AWAY FROM HEAT, SPARKS AND FLAMES. STORE IN COOL VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS.

Special Shipping Information:

**SECTION 8 - FIRST AID MEASURES**

Skin: REMOVE WITH SOAP AND WATER.

Eyes: FLUSH WITH LOTS OF CLEAN WATER FOR 15 MINUTES.

Inhalation: REMOVE TO FRESH AIR.

Ingestion: GIVE PLENTY OF WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

General advice:

**SECTION 9 - PREPARATION DATE OF M.S.D.S.**

Additional information/Comments:

Sources Used: Manufacturer's MSDS's and technical information..

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