

BEBBINGTON INDUSTRIES  
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 DARTMOUTH, NOVA SCOTIA, B3B 1G6  
 (902)-468-8180

**PRODUCT : OXALIC ACID**

**SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

DISTRIBUTED BY.....BEBBINGTON INDUSTRIES  
 DARTMOUTH, N.S., B3B 1G6  
 PREPARED BY.....ENVIRONMENTAL & REGULATORY AFFAIRS DEPARTMENT  
 PREPARATION DATE.....MAY 2015  
 PRODUCT NAME.....OXALIC ACID  
 PRODUCT CODE:.....OXA- ( 01T, 05T, 25T )  
 CHEMICAL FORMULA.....N.AV.  
 MOLECULAR WEIGHT.....N.AV.  
 CHEMICAL FAMILY.....N.AV.  
 MATERIAL USE.....N.AV.  
 EMERGENCY PHONE NO.....(613)-996-6666

**SECTION 02: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	EXPOSURE LEVELS	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
OXALIC ACID % :100 CAS #:144-62-7	1 MG/M3 (ACGIH)	375 MG/KG	N.AV.

**SECTION 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
 SKIN CONTACT.....SHORT SINGLE EXPOSURE CAN CAUSE SEVERE BURNS. REPEATED OR  
 PROLONGED CONTACT MAY CAUSE DERMATITIS. REPEATED CONTACT  
 CAN CAUSE ULCERATION.  
 SKIN ABSORPTION.....N.AV.  
 EYE CONTACT.....CAUSES EYE BURNS.  
 INHALATION.....DUST CAN CAUSE IRRITATION AND INJURY TO THE RESPIRATORY  
 SYSTEM.  
 INGESTION.....SWALLOWING MAY BE FATAL. MAY CAUSE SHOCK. SEVERE PAIN,  
 VOMITING, DIARRHEA, AND COLLAPSE. CONVULSION.  
 EFFECTS OF ACUTE EXPOSURE.....CORROSIVE EFFECTS ON THE SKIN AND EYES MAY BE DELAYED, AND  
 DAMAGE MAY OCCUR WITHOUT THE SENSATION OR ONSET OF PAIN.  
 STRICT ADHERENCE TO FIRST AID MEASURES FOLLOWING ANY  
 EXPOSURE IS ESSENTIAL.  
 EFFECTS OF CHRONIC EXPOSURE.....SEE ABOVE

**SECTION 04: FIRST AID MEASURES**

**PRODUCT : OXALIC ACID****SECTION 04: FIRST AID MEASURES**

INSTRUCTIONS:.....IN CASE OF INHALATION, REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION. GET IMMEDIATE MEDICAL ATTENTION. FLUSH EYES WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER. SEEK MEDICAL ATTENTION URGENTLY, PREFERABLY FROM AN OPHTHALMOLOGIST. START RINSING AND REMOVE CONTAMINATED CLOTHING WHILE RINSING. FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION WITHOUT DELAY. IF INGESTED, HAVE VICTIM DRINK TWO GLASSES OF WATER. DO NOT GIVE ANYTHING BY MOUTH TO A CONVULSING OR UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. IF VOMITING OCCURS KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. RINSE MOUTH WITH WATER. IMMEDIATELY TRANSPORT VICTIM TO AN EMERGENCY FACILITY.

**SECTION 05: FIRE FIGHTING MEASURES**

FLAMMABILITY.....NOT FLAMMABLE  
IF YES, UNDER WHICH  
CONDITIONS?  
EXTINGUISHING MEDIA.....APPLY AQUEOUS FILM FORMING FORAM (AFFF) ACCORDING TO  
MANUFACTURER'S RECOMMENDED TECHNIQUES OR WATER IN THE FORM  
OF A FOG FOR LARGE FIRES. USE CARBON DIOXIDE OR DRY  
CHEMICAL FOR SMALL FIRES.  
SPECIAL PROCEDURES.....USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND  
STRUCTURES. DISPERSE VAPOR WITH WATER SPRAY. WEAR FULL  
PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING  
APPARATUS.  
FLASH POINT (C), METHOD.....N.AP.  
AUTO IGNITION TEMPERATURE.....N.AP.  
UPPER FLAMMABLE LIMIT (% BY.....N.AV.  
VOL.)  
LOWER FLAMMABLE LIMIT (% BY.....N.AV.  
VOL.)  
EXPLOSION DATA  
EXPLOSIVE POWER.....N.AV.  
RATE OF BURNING.....N.AV.  
SENSITIVITY TO STATIC.....N.AV.  
DISCHARGE  
SENSITIVITY TO IMPACT.....N.AV.  
HAZARDOUS COMBUSTION PRODUCTS...OXIDES OF CARBON (CO,CO2)

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

**PRODUCT : OXALIC ACID****SECTION 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL.....DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH, ETC.) AND TRANSFER LIQUID AND SOLID SEPARATELY TO CONTAINERS FOR RECOVERY OR DISPOSAL. DIKE AND CONTAIN LAND SPILLS; CONTAIN WATER SPILLS BY BOOMING. SCOOP INTO DRUMS. CAUTIOUSLY SPRAY RESIDUE WITH PLENTY OF WATER. NEUTRALIZE WITH LIME, SODA ASH. COLLECT AND CONTAIN IN SUITABLE DISPOSAL CONTAINERS. REMOVE CONTAMINATED SOIL. PLACE IN A CLOSED AND IDENTIFIED CONTAINER.

**SECTION 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND.....AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID EQUIPMENT BREATHING VAPOURS. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. USE ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED OR SEALED. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. MAINTAIN A GOOD PERSONAL HYGIENE.

STORAGE NEEDS.....STORE IN A COOL AND WELL-VENTILATED AREA. @ < 49 (C). KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS.

**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE.....RUBBER. NEOPRENE

RESPIRATORY/TYPE.....USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION WHEN AIRBORNE DUST IS EXPECTED.

EYE/TYPE.....CHEMICAL SAFETY GOGGLES. FACE SHIELD

FOOTWEAR/TYPE.....BOOTS

CLOTHING/TYPE.....WEAR IMPERVIOUS PROTECTIVE CLOTHING. WEAR AN APRON AND/OR AN OVERALL.

OTHER/TYPE.....EYE BATH AND SAFETY SHOWER.

ENGINEERING CONTROLS.....GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....SOLID

ODOUR.....N.AV.

ODOUR THRESHOLD.....N.AV.

VAPOUR PRESSURE (MMHG).....N.AV.

VAPOUR DENSITY (AIR=1).....N.AP.

EVAPORATION RATE.....N.AP.

BOILING POINT.....102 (C). (SUBLIMES)

PH.....N.AV.

SPECIFIC GRAVITY (WATER=1).....1.65

SOLUBILITY IN WATER (% W/W).....SOLUBLE @ 60 C

COEFFICIENT OF WATER/OIL DIST....N.AV.

**PRODUCT : OXALIC ACID****SECTION 10: STABILITY AND REACTIVITY**

## CHEMICAL STABILITY:

YES.....YES

NO, WHICH CONDITIONS?

## COMPATABILITY WITH OTHER

## SUBSTANCES:

YES

NO, WHICH ONES?.....ALKALIES. CHLORITES, HYPOCHLORITES. SILVER. STRONG  
OXIDIZING AGENTSREACTIVITY CONDITIONS?.....EXCESSIVE HEAT, SPARKS AND OPEN FLAME. IN THE PRESENCE OF  
OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR

HAZARDOUS PRODUCTS OF.....FORMIC ACID. OXIDES OF CARBON (CO,CO2).

DECOMPOSITION

**SECTION 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL.....SEE SECTION 02

LC 50 OF MATERIAL, SPECIES &amp;.....N.AV.

ROUTE

LD 50 OF MATERIAL, SPECIES &amp;.....N.AV.

ROUTE

CARCINOGENICITY OF MATERIAL.....NONE

REPRODUCTIVE EFFECTS.....NONE

IRRITANCY OF MATERIAL.....SEE SECTION 03

SENSITIZING CAPABILITY OF.....N.AV.

MATERIAL

SYNERGISTIC MATERIALS.....NONE

**SECTION 12: ECOLOGICAL CONSIDERATIONS**ENVIRONMENTAL TOXICITY.....A HIGH POTENTIAL TO AFFECT SOME AQUATIC ORGANISMS.  
INFORMATION**SECTION 13: DISPOSAL CONSIDERATIONS**WASTE DISPOSAL.....IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL  
REGULATIONS.**SECTION 14: TRANSPORT INFORMATION**

TDG CLASSIFICATION.....NOT REGULATED

SPECIAL SHIPPING INSTRUCTIONS...N.AP.

**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION.....D1B. E

**PRODUCT : OXALIC ACID**

**SECTION 15: REGULATORY INFORMATION**

CPR COMPLIANCE.....THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

**SECTION 16: OTHER INFORMATION**

N.AV.=NOT AVAILABLE  
N.AP.=NOT APPLICABLE

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. BEBBINGTON INDUSTRIES SHALL NOT BE HELD LIABLE FOR ANY DAMAGE OF INJURY RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. ALL PERSONS USING THIS PRODUCT SHOULD BE TRAINED ACCORDING TO WHMIS REQUIREMENTS.