## BEBBINGTON INDUSTRIES SAFETY DATA SHEET **ALUMINUM SULPHATE 48% SOL**

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER

BEBBINGTON INDUSTRIES

44 WRIGHT AVENUE

DARTMOUTH, NOVA SCOTIA, CANADA B3B 1G6

PRODUCT NAME CHEMICAL FORMULA CHEMICAL FAMILY

ALUMINUM SULPHATE 48% SOL 48%AL2(SO4)3.14H2O (IN WATER)

**INORGANIC** 

MATERIAL USE

REFER TO TECHNICAL LITERATURE

**EMERGENCY NUMBER** 

CANUTEC 1 613 996 6666

## **SECTION 02: HAZARDS IDENTIFICATION**



SIGNAL WORD DANGER HAZARD CLASSIFICATION.... CORROSIVE TO METALS — CATEGORY 1. SKIN CORROSION — CATEGORY 1A.
SERIOUS EYE DAMAGE — CATEGORY 1.
H290 MAY BE CORROSIVE TO METALS. H314 CAUSES SEVERE SKIN BURNS AND HAZARD STATEMENT..... EYE DAMAGE, H318 CAUSES SERIOUS EYE DAMAGE, H402 HARMFUL TO AQUATIC LIFE PRECAUTIONARY STATEMENT

LIFE.
P234 KEEP ONLY IN ORIGINAL CONTAINER. P260 DO NOT BREATHE
DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH... THOROUGHLY AFTER
HANDLING. P273 AVOID RELEASE TO THE ENVIRONMENT. P280 WEAR
PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE
PROTECTION. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE
VOMITING. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF
IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH
WATER/SHOWER. P304+P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND
KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P305+P351+P338
IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE
CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P310
IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P363 WASH
CONTAMINATED CLOTHING BEFORE REUSE. P390 ABSORB SPILLAGE TO
PREVENT MATERIAL DAMAGE. P501 DISPOSE OF CONTENTS/CONTAINER

PREVENT MATERIAL DAMAGE. P501 DISPOSE OF CONTENTS/CONTAINER ACCORDING TO ALL APPLICABLE REGULATIONS.

OTHER HAZARDS..... NOT ASSESSED

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS HAZARDOUS INGREDIENTS CAS# WT. % ALUMINUM SULPHATE 10043-01-3 48

## **SECTION 04: FIRST AID MEASURES**

GENERAL ADVICE: MOVE OUT OF DANGEROUS AREA. CONSULT A PHYSICIAN. SHOW THE SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. IF BREATHED IN, MOVE PERSON INTO FRESH AIR, IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION.

TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF WATER FOR AT LEAST 20 MINUTES CONSULT A IN CASE OF SKIN CONTACT: IN CASE OF EYE CONTACT CONTINUE RINSING EYES DURING TRANSPORT TO HOSPITAL. RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

### PRODUCT: ALUMINUM SULPHATE 48% SOL.

#### SECTION 04: FIRST AID MEASURES

IF SWALLOWED:

DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN. DO NOT LEAVE VICTIM UNATTENDED.

### SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY..

SUITABLE EXTINGUISHING MEDIA.....

HAZARDOUS COMBUSTION PRODUCTS.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

SPECIAL PROCEDURES.....

NOT COMBUSTIBLE/NOT FLAMMABLE. SUITABLE FOR SURROUNDING FIRE. DOES NOT BURN. USE MEDIA SUITABLE FOR SURROUNDING FIRE, SUCH AS WATER SPRAY, DRY CHEMICAL, FOAM. SULPHURIC ACID DECOMPOSITION MAY RESULT IN THE RELEASE OF TOXIC GASES (SULPHURIC ACID FUMES, SULPHUR DIOXIDE, CARBON MONOXIDE). EVOLUTION OF EXPLOSIVE HYDROGEN GAS ON CONTACT WITH MOST METALS. TOXIC GASES (SULPHURIC ACID FUMES, SULPHUR DIOXIDE AND CARBON MONOXIDE) MAY BE RELEASED DUE TO THERMAL DECOMPOSITION. EVACUATE HAZARD AREA. USE WATER ON COMBUSTIBLE BURNING IN THE VICINITY OF THIS MATERIAL BUT USE CARE AS WATER APPLIED DIRECTLY TO ACID CAUSES SPATTERING OF THE ACID. DO NOT GET WATER INSIDE CONTAINER. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS. NOTE... RUN OFF FROM FIRE CONTROL MAY BE A POLLUTION HAZARD. CAUTION.....CORROSIVE MATERIAL. NEUTRALIZE WITH LIME, SODA ASH, ETC., TO PREVENT CORROSION OF METALS AND FORMATION OF HYDROGEN. SUITABLE FOR SURROUNDING FIRE. DOES NOT BURN. USE MEDIA SUITABLE FOR

### **SECTION 06: ACCIDENTAL RELEASE MEASURES**

AND FORMATION OF HYDROGEN.

PERSONAL PRECAUTIONS:.....

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS, ENSURE ADEQUATE VENTILATION. REMOVE ALL SOURCES OF IGNITION. EVACUATE PERSONNEL TO SAFE AREAS. BEWARE OF VAPOURS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.

ENVIRONMENTAL PRECAUTIONS:.... 

DO NOT ALLOW PRODUCT TO ENTER DRAINS.
SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

### **SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING.....

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING, AVOID BREATHING MIST OR VAPOUR. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE ADEQUATE VENTILATION, KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME, WHEN DILUTING, ALWAYS ADD THE ACID TO WATER, NEVER ADD WATER TO THE ACID. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

CONDITIONS FOR SAFE STORAGE......

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN A COO\_ AND WELL-VENTIAL KEEP AWAY FROM FLAMES AND SPARKS. STORE AWAY FROM STRONG OXIDIZERS.

### SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS TWA ACGIH TLV STEL PEL	OSHA PEL STEL	NIOSH REL
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ALUMINUM SULPHATE 2 MG/M3

EXPOSURE LIMIT OF MATERIAL..... ENGINEERING CONTROLS.....

1 MG/M3 (0.25 PPM). SPACES SKIN AND BODY PROTECTION.....

USE GOOD VENTILATION. LOCAL EXHAUST SUGGESTED FOR ENCLOSED ACID-PROOF GAUNTLET GLOVES SUCH AS: PVC, NEOPRENE OR NITRILE

COMPLETE SUIT PROTECTING AGAINST CHEMICALS. THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE. ACID PROOF BOOTS.

RESPIRATORY PROTECTION..... EYE/FACE PROTECTION..... OTHER/TYPE.....

USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD

EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.

### PRODUCT: ALUMINUM SULPHATE 48% SQL.

## SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

NOTE

IN CASE OF EMERGENCY OR WHERE THERE IS A STRONG POSSIBILITY OF CONSIDERABLE EXPOSURE, WEAR A COMPLETE ACID SUIT WITH HOOD, BOOTS, AND GLOVES. IF ACID VAPOUR OR MIST ARE PRESENT AND EXPOSURE LIMITS MAY BE EXCEEDED, WEAR APPROPRIATE NIOSH RESPIRATORY PROTECTION.

## SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE ODOUR ODOUR THRESHOLD PH MELTING POINT/FREEZING POINT (C) BOILING POINT FLASH POINT (C), METHOD EVAPORATION RATE FLAMMABILITY (SOLIDS AND GASES) UPPER FLAMMABLE LIMIT (% BY VOL.) LOWER FLAMMABLE LIMIT (% BY VOL.) VAPOUR PRESSURE VAPOUR DENSITY (AIR=1) SPECIFIC GRAVITY (WATER=1). SOLUBILITY IN WATER (% W/W) AUTO IGNITION TEMPERATURE PARTITION COEFFICIENT: N-OCTANOL/WATER	LITTLE OR NO ODOUR. 2.515. 101 (C) 214 (F). N.AP. NOT AVAILABLE. DOES NOT BURN. NOT APPLICABLE. NOT APPLICABLE. N.AV. N.AV. 1.335. COMPLETE. NOT AVAILABLE.
DECOMPOSITION TEMPERATUREVISCOSITY	150 C (320 F) WITH DECOMPOSITION. NOT AVAILABLE.

## **SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY: CHEMICAL STABILITY: POSSIBILITY OF HAZARDOUS REACTION	SSEE REACTIVITY.
CONDITIONS TO AVOID	TEMPERATURES ABOVE 760 (C) CAUSES DECOMPOSITION TO CORROSIVE AND
INCOMPATIBLE MATERIALS :	ALKALIS AND WATER-REACTIVE MATERIALS SUCH AS OLEUM CAUSE
HAZARDOUS DECOMPOSITION PRODUCTS	AT TEMPERATURES ABOVE 760°C, SULFUR OXIDE GASES ARE RELEASED WHICH ARE TOXIC, CORROSIVE AND ARE OXIDIZERS. THE REMAINING RESIDUE IS CAUSTIC. THE TRIOXIDE IS ALSO A FIRE HAZARD, OXIDES OF ALUMINUM.

## SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
ALUMINUM SULPHATE	N.AV.	6207 MG/KG (ORL-MSE)
DERMAL LD50	MG AL/KG (ORAL-RAT). DATA AVAILABLE, DO MG/KG (RABBIT). DATA AVAILABLE.	W.
RESPIRATORY OR SKIN SENSITIZATION NO E GERM CELL MUTAGENICITY NO E CARCINOGENICITY THE DETE MIST THIS	VIDENCE WAS FOUND OF RESPIRATIONAL AGENCY FOR RESPINATIONAL AGENCY FOR RESPIRATIONAL EXPONENTIONAL EXPONENTAINING SULPHURIC ACID IS PRODUCT DOES NOT CONTAIN AND	TORY OR SKIN SENSITIZATION. NICITY. EARCH ON CANCER (IARC) HAS POSURE TO STRONG-INORGANIC ACID CARCINOGENIC TO HUMANS (group 1). (INGREDIENT DESIGNATED BY IABC.
THAN	OR EQUAL TO 0.1% IS IDENTIFIED.	SUSPECTED HUMAN CARCINGENS DUCT PRESENT AT LEVELS GREATER AS A CARCINGGEN OR POTENTIAL
REPRODUCTIVE TOXICITY	INOGEN BY ACGIH. VIDENCE FOUND OF REPRODUCTIV ATA AVAILABLE. ATA AVAILABLE.	

#### PRODUCT: ALUMINUM SULPHATE 48% SOL.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

ASPIRATION HAZARD. POTENTIAL HEALTH EFFECTS.

NO DATA AVAILABLE

INHALATION - MAY BE FATAL IF INHALED. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CAUSES RESPIRATORY TRACT IRRITATION. INGESTION - HARMFUL IF SWALLOWED. EYES - CAUSES SEVERE EYE BURNS. MAY CAUSE EYE IRRITATION.

SKIN - MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION.

SIGNS AND SYMPTOMS OF EXPOSURE...

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN, SPASM, INFLAMMATION AND EDEMA OF THE LARYNX, SPASM, INFLAMMATION AND EDEMA OF THE BRONCHI, PNEUMONIA, PULMONARY EDEMA, BURNING SENSATION, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING, EFFECTS MAY BE DELAYED. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATE.

### **SECTION 12: ECOLOGICAL INFORMATION**

PERSISTENCE AND DEGRADABILITY...... THE METHODS FOR DETERMINING THE BIOLOGICAL DEGRADABILITY ARE NOT APPLICABLE TO INORGANIC SUBSTANCES.

IS PREDICTED TO BE LOW.

BIOACCUMULATIVE POTENTIAL..... TOXICITY.....
MOBILITY IN SOIL.....

NO DATA AVAILABLE

OTHER ADVERSE EFFECTS.....

NO DATA AVAILABLE NO INFORMATION AVAILABLE.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS:....

IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

### **SECTION 14: TRANSPORT INFORMATION**

PROPER SHIPPING NAME..... UN NUMBER....

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM SULFATE).

TDG CLASSIFICATION.....

3264.

PACKING GROUP. SPECIAL SHIPPING INSTRUCTIONS......

HPR COMPLIANCE.....

REFER TO TRANSPORTATION OF DANGEROUS GOOD REGULATIONS.

### SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....

CPR COMPLIANCE.....

D2B, E.
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.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD

CRITERIA OF THE HPR AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE HPR.

### **SECTION 16: OTHER INFORMATION**

Prepared by

Bebbington Industries

**Date Preparation** 

July 2023

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