

BIO BASIC INC.

20 KONRAD CRES., MARKHAM ONTARIO L3R 8T4 CANADA

TEL: (905) 474 4493, (800) 313 7224 FAX: (905) 474 5794

MATERIAL SAFETY DATA SHEETREQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING
MANUFACTURER'S NAME: BIO BASIC INC.

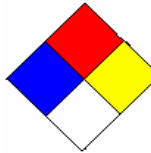
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FOR CHEMICAL EMERGENCY: (416) 995 9730

ADDRESS: 20 KONRAD CRES., MARKHAM ONTARIO L3R 8T4 CANADA

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	



Updated: May 24, 2011

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

CODE#: FB0459

NAME: IRON(II) CHLORIDE TETRAHYDRATE

CAS#: 13478-10-9

SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----MF: $\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$

SYNONYMS

FERRIC CHLORIDE, TETRAHYDRATE * FERRIC BICHLORIDE TETRAHYDRATE * IRON
(II), CHLORIDE, TETRAHYDRATE * IRON BICHLORIDE TETRAHYDRATE ***SECTION 3. ----- HAZARDS IDENTIFICATION -----**

LABEL PRECAUTIONARY STATEMENTS

CORROSIVE

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

TARGET ORGAN(S):

LIVER

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.**SECTION 4. ----- FIRST-AID MEASURES-----**IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

CALL A PHYSICIAN.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

AVOID RAISING DUST.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. ----- HANDLING AND STORAGE-----

REFER TO SECTION 8.

ADDITIONAL INFORMATION

ALLYL CHLORIDE MAY POLYMERIZE VIOLENTLY UNDER CONDITIONS INVOLVING AN ACID CATALYST SUCH AS FERRIC CHLORIDE.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

CHEMICAL SAFETY GOGGLES.

RUBBER GLOVES.

SAFETY SHOWER AND EYE BATH.

USE ONLY IN A CHEMICAL FUME HOOD.

NIOSH/MSHA-APPROVED RESPIRATOR.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

KEEP TIGHTLY CLOSED.

HYGROSCOPIC

AIR SENSITIVE

STORE IN A COOL DRY PLACE.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE

POWDER

PHYSICAL PROPERTIES

MELTING POINT: 37 C

SECTION 10. -----STABILITY AND REACTIVITY -----

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

AIR

MOISTURE

FORMS EXPLOSIVE MIXTURES WITH:

SODIUM

POTASSIUM

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

HYDROGEN CHLORIDE GAS

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

CHRONIC EFFECTS

TARGET ORGAN(S):

LIVER

INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: NO5600000

IRON(3+) CHLORIDE, HEXAHYDRATE

TOXICITY DATA

IPR-MUS LD50:260 MG/KG JAFCAU 14,512,1966

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

UN#: 3260

PROPER SHIPPING NAME: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (CONTAINING FERRIC CHLORIDE, HEXAHYDRATE)

PG: III

CLASS: 8

SECTION 15. ----- REGULATORY INFORMATION -----

EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

CORROSIVE

R: 34

CAUSES BURNS.

R: 23/24/25

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

S: 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

MSHA STANDARD-AIR:TWA 1 MG(Fe)/M3

DTLVS* 3,138,1971

OEL-DENMARK:TWA 1 MG(Fe)/M3 JAN 1993

OEL-FINLAND:TWA 1 MG(FE)/M3 JAN 1993
OEL-THE NETHERLANDS:TWA 1 MG(FE)/M3 JAN 1993
OEL-SWITZERLAND:TWA 1 MG(FE)/M3 JAN 1993
OEL-UNITED KINGDOM:TWA 1 MG(FE)/M3;STEL 2 MG(FE)/M3 JAN 1993
NOES 1983: HZD X4675; NIS 4; TNF 100; NOS 4; TNE 871; TFE 465

SECTION 16. ----- OTHER INFORMATION-----

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. BIO BASIC INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.