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THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE - HOWEVER NO GUARANTEE OR WARRANTY EXPRESSED OR IMPLIED IS GIVEN

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

NAME: FERRIC CHLORIDE HEXAHYDRATE CRYSTALS.

PART NOS:

13-2003 (500G)

13-2004 (2.5KG)

SUPPLIERS NAME, REGISTERED ADDRESS AND EMERGENCY TEL NO:

VERO TECHNOLOGIES LTD

UNIT 25 SOLENT INDUSTRIAL ESTATE
SHAMBLEHURST LANE, HEDGE END, HANTS
SO30 2FY. 01489766930.

ORGANISATIONS NAME & ADDRESS AT WHICH MANUFACTURED

KEPETS GMBH. TEL: 0049 6445 5810

NORDSTRASSE 24

D-35641 SCHÖFFENGRUND

LAUFDORF.

GERMANY.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT %BY WT CAS & EEC NOS:

HAZARD R PHRASE NOS:

FERRIC 100 CAS 10025-77 XN 36/39

CHLORIDE EC: 231-729-4 IRRITATING TO EYES &

HEXAHYDRATE SKIN

SECTION 3 HAZARDS IDENTIFICATION CLASSIFIED AS HARMFUL

MAY BE CORROSIVE TO MUCOUS MEMBRANES, EYES AND SKIN. ITS EFFECTS ARE SIMILAR TO THOSE OF ANY CAUSTIC SUBSTANCE. THE ESTIMATED ONE TIME LETHAL DOSE FOR 70 KG MAN IS 30G.

SECTION 4 FIRST AID MEASURES

INHALATION:

MOVE TO FRESH AIR AND KEEP AT REST. IF RECOVERY IS NOT RAPID, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND WATER. IF IRRITATION OCCURS AND PERSISTS, SEEK MEDICAL ATTENTION.

EYE CONTACT:

FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION

INGESTION:

RINSE MOUTH OUT WITH WATER. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.

MEDICAL NOTES: N/A

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
NON FLAMMABLE, SO NO LIMITATIONS
COMBUSTION PRODUCTS

N/A

FIRE/EXPLOSION SCENARIOS

DECOMPOSES TO RELEASE Cl AND HCl
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION

REFER TO SECTION 8; PERSONAL PROTECTION

ENVIRONMENTAL PRECAUTIONS .

AVOID ENTRY INTO DRAINS & WATERWAYS.

WORKPLACE PRECAUTIONS N/A

METHODS FOR CLEARING UP:

SWEEP AND GATHER PRODUCT;
AVOID GENERATION OF DUST.

SECTION 7 HANDLING AND STORAGE

HANDLING PRECAUTIONS
PREFERABLY HANDLE IN CONFINED SPACES.
IF USING LARGE QUANTITIES, USE NON CORROSIVE EQUIPMENT.

STORAGE INCLUDING ANY SPECIAL REQUIREMENTS

(TEMPERATURE, VENTILATION, ETC)
STORE IN PLASTIC CONTAINERS. KEEP IN WELL VENTILATED AREA, AWAY FROM REACTIVE SUBSTANCES.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS/ VENTILATION
NORMAL GOOD ROOM VENTILATION SHOULD BE SUFFICIENT.

RESPIRATORY PROTECTION

N/A

EYE PROTECTION

RECOMMENDED SPLASHPROOF GOGGLES

HAND PROTECTION

RECOMMENDED IMPERVIOUS GLOVES E.G. NITRILE.

SKIN PROTECTION

RECOMMENDED IN FORM OF COVERALLS.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CRYSTALS COLOUR: YELLOW / BROWN

ODOUR: NONE ACIDITY/ALKALINITY PH: 2.0 (MOLAR AQUEOUS SOLUTION)

BOILING POINT LM1-°C:280-285 (1013MBAR)

MELTING POINT °C: 0-37

FLASH POINT °C (OPEN/CLOSED CUP): N.A.

AUTOIGNITION TEMP °C: N.A.

THERMAL DECOMPOSITION TEMP °C: 0-160

OXIDISING PROPERTIES: STRONG OXIDISER

EXPLOSIVE PROPERTIES: NON FLAMMABLE

EXPLOSIVE LIMITS AT AT 25°C (% VOL IN AIR)

LOWER: UPPER:

RELATIVE DENSITY: 1.66 SOLID CONTENT %:

SOLUBILITY IN WATER: 920G /L AT 20°C

INSOLUBILITY IN ALCOHOL, ETHER AND ACETONE.

VOLATILE CONTENT

VAPOUR PRESSURE MMHG AT 20°C

RELATIVE VAPOUR DENSITY (AIR = 1):

(OF PRINCIPLE COMPONENT AND NAME):

EVAPORATION RATE CONDUCTIVITY:

(N-BUTYL ACETATE = 1):

SECTION 10 STABILITY AND REACTIVITY PROPERTIES

CONDITIONS TO AVOID: NONE

MATERIALS TO AVOID: SOLUTIONS OF FERRIC CHLORIDE ACT AS AN

ACID AND ARE POWERFUL OXIDISING

AGENTS, DISSOLVING THE

MAJORITY OF METALS (CU, NI, SN, PB, MN, FE, CO, ETC)

HAZARDOUS DECOMPOSITION PRODUCTS:

INCLUDE DI AND HCl

HAZARDOUS POLYMERISATION WILL NOT OCCUR

SECTION 11 TOXICOLOGICAL INFORMATION

EFFECT OF EYE CONTACT:

IRRITATION, TEARING, REDNESS, RISK OF BURNS.

EFFECT OF SKIN CONTACT:

IRRITATION WHEN IN CONTACT WITH DAMP SKIN, RISK OF BURNS,

RISK OF DERMATITIS AFTER REPEATED

CONTACT. PERSISTENT

PIGMENTATION OF SKIN ON REPEATED CONTACT.

EFFECT OF INHALATION:

IRRITATION OF NOSE AND THROAT.

COUGHING AND DIFFICULTY

BREATHING AFTER PROLONGED OR

REPEATED EXPOSURE

ULCERATION OF THE NOSE AND BROWN

STAINING OF THE TEETH.

EFFECT OF INGESTION:

LOW PROBABILITY OF RISK DUE TO ACRID

TASTE IRRITATION AND

BURNS TO MOUTH, THROAT AND STOMACH.

NAUSEA, VOMITING,

STOMACH CRAMPS AND DIARRHOEA. RISK OF

SHOCK.

LD50 (ORAL HUMAN): 30G / 70KG (EST.)

LD50 (ORAL RAT): 900MG / KG.

LD50 (ORAL MOUSE): 440MG / KG.

SECTION 12 ECOLOGICAL INFORMATION POSSIBLE ENVIRONMENTAL EFFECTS AND BEHAVIOUR/ODP/AQUATIC TOXICITY.

EC50 (DAPHNIA): 7.3MG / 1 (IRON)

LC50 (FISH): 26MG / 1 (IRON)

ODP: N.A. - NO OTHER DATA AVAILABLE.

SECTION 13 DISPOSAL CONSIDERATIONS SAFE DISPOSAL OF PRODUCT, ITS RESIDUES AND PACKAGING MATERIALS:

IN ACCORDANCE WITH LOCAL REGULATIONS VIA LICENSED CONTRACTOR.

MAY BE NEUTRALISED TO NEUTRAL PH.

DISPOSE IN A CONTROLLED LANDFILL SITE.

SEE ALSO SECTIONS 7 & 8 FOR HANDLING PRECAUTIONS AND PERSONAL PROTECTION WHERE APPLICABLE.

SECTION 14 TRANSPORT INFORMATION

NOT CLASSIFIED AS DANGEROUS FOR TRANSPORT UNDER

IMDG , ADR , IATA REGULATIONS

SECTION 15 REGULATORY INFORMATION

INDICATION OF DANGER: BLACK ST.

ANDREW'S CROSS, HARMFUL

CONTAINS: FERRIC CHLORIDE HEXAHYDRATE

RISK PHRASE NOS & WORDS:

36/39 IRRITATING TO EYES AND SKIN.

SAFETY PHRASE NOS & WORDS:

S26 IN CASE OF CONTACT WITH EYES / RINSE

IMMEDIATELY WITH PLENTY OF

WATER AND SEEK MEDICAL ADVICE

S26/37/39 WEAR SUITABLE PROTECTIVE

CLOTHING, GLOVES AND EYE / FACE

PROTECTION

SECTION 16 OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS:

USE ONLY AS DIRECTED.

REF: CHIP III COMPLIANCE. ADR 2007

LAST REVISION : 02.05.2007