

DATE OF ISSUE: 11 APRIL 2009

**BARMAC INDUSTRIES PTY LTD
BOX FLAT ESTATE SWANBANK RD. SWANBANK Q 4306
MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: BARMAC IRON CHELATE
PHONE: (07) 3280 3000
EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

NOT CLASSIFIED AS HAZARDOUS BY WORKSAFE AUSTRALIA CRITERIA

IDENTIFICATION

OTHER NAMES: N/A
USE: Fertilizer
UN NUMBER: N/A
HAZCHEM CODE: N/A
DANGEROUS GOODS CLASS: N/A
POISONS SCHEDULE: N/A

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: Yellow – Green odourless powder (25°C)
FLASHPOINT (°C): N/A
BOILING POINT (°C): N/A
FLAMMABILITY LIMITS (%): N/A
VAPOUR PRESSURE (___): N/A
SOLUBILITY IN WATER (g/L): 90 g/l (20°C); 300 g/l (80°C)
SPECIFIC GRAVITY: N/A
BOILING POINT / RANGE: N/A
MELTING POINT / RANGE: 80 °C (crystal water loss)
AUTOIGNITION TEMPERATURE: > 150 °C
EXPLOSIVE PROPERTIES: N/A
EXPLOSION LIMITS: N/A
OXIDIZING PROPERTIES: Yes
VAPOUR PRESSURE: N/A
DENSITY: N/A
BULK DENSITY: Approx. 650 kg / m³
SOLUBILITY IN OTHER SOLVENTS: N/A
pH VALUE: pH approx. 4.5 (1% solution)
PARTITION COEFFICIENT: N/A
N-OCTANOL / WATER
RELATIVE VAPOUR DENSITY (air=1): N/A
VISCOSITY: N/A
OTHER INFORMATION: Decomposition Temperature: 150°C

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INGREDIENTS:

<u>CHEMICAL ENTITY</u>	<u>CAS NO</u>	<u>PROPORTION</u>
Ethylenediaminetetraacetic acid, ferric sodium complex, approx. 100%	15708-41-5	Min. 99%

Composition: 13.2% iron (Fe) as EDTA chelate

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE: No typical symptoms and effects known. In all cases of doubt, or when symptoms persist, seek medical attention.

SWALLOWED: May cause irritation.

EYES: May cause irritation.

SKIN: May cause irritation.

INHALED: Dust may be irritating to the respiratory tract and cause symptoms of bronchitis and tightness in the chest.

CHRONIC: N/A

FIRST AID

SWALLOWED: Rinse mouth out and give a glass of water to drink. Seek medical attention if irritation develops.

EYES: Rinse thoroughly with plenty of water for about 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

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SKIN: Take of all contaminated clothing immediately. Wash infected skin with plenty of soap and water. Launder all clothes before reuse.

INHALED: Move victim to fresh air. If symptoms persist, seek medical advice.

FIRST AID FACILITIES: Eye bath and shower.

ADVICE TO DOCTOR: No additional information available.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS: In combustion emits toxic fumes. May form flammable/explosive dust-air mixture.

ENGINEERING CONTROLS: Ensure there is sufficient ventilation of the area.

EXPOSURE LIMITS: No exposure limits have been established for this material.

PERSONAL PROTECTION: In case of dust formulation use a dust mask. For permanent (>480 minutes), full contact use, 100% nitrile gloves conforming to EN 374, e.g. KCL Dermatril 740 are recommended. If used under conditions other than given above it is recommended that a supplier of CE approved gloves is contacted. These recommendations are only applicable to the chemical as supplied by Barmac Industries; if mixed with or dissolved in other substances please contact a supplier of CE approved gloves (e.g. KCL International +49 66 59870, fax +49 6659 871550). Wear face / eye protection. The usual precautions for handling chemicals should be observed.

FLAMMABILITY: N/A

SAFE HANDLING INFORMATION

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STORAGE AND TRANSPORT: Avoid dust generation. Store in cool, well ventilated area.. Keep containers tightly closed and dry.

TRANSPORT INFORMATION:

LAND TRANSPORT (ADR / RID)

ADR CLASS: Not restricted
RID CLASS: Not restricted
HAZARD IDENTIFICATION NUMBER: None
TREM – CARD: Not relevant
PROPER SHIPPING NAME: Not relevant

ADR ITEM NUMBER: Not relevant
RID ITEM NUMBER: Not relevant
SUBSTANCE IDENTIFICATION NUMBER: None
U.N. NUMBER: Not relevant

SEA TRANSPORT (IMDG-CODE / IMO)

IMO / IMDG CODE: Not restricted
PACKING GROUP: None
EMS: Not relevant
MARINE POLLUTANT: No
PROPER SHIPPING NAME: Not relevant

CLASS: Not restricted
U.N. NUMBER: None
MFAG: Not relevant
HAZCHEM: None allocated

AIR TRANSPORT (ICAO-TI / IATA-DGR)

ICAO-TI / IATA-DGR: N/A
CLASS: Not restricted
PROPER SHIPPING NAME: Not relevant
OTHER INFORMATION: Keep away from: aluminium + humidity / water.

U.N NUMBER: None
PACKING GROUP: None

SPILLS AND DISPOSAL: Dispose of according to local regulations. No specific recommendations for contaminated packaging.

FIRE/EXPLOSION HAZARD: N/A

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HAZARDOUS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Waterspray, foam, carbon dioxide and dry chemical powder.

UNSUITABLE EXTINGUISHING MEDIA: None Known

SPECIAL EXPOSURE HAZARDOUS: In case of fire and / or explosion do not breathe fumes.

HAZARDOUS DECOMPOSITION / COMBUSTION PRODUCTS: Nitrous gases may be produced.

PROTECTIVE EQUIPMENT: Use self-contained respiratory equipment.

ACCIDENTIAL RELEASE MEASURES

PERSONAL PROTECTION: Respiratory protective device with particle filter, protective gloves, safety glasses (ensure eye bath is to hand) and protective clothing.

ENVIRONMENTAL PRECAUTIONS: Collect as much as possible in a clean container (preferable) reuse or dispose.

METHODS FOR CLEANING UP: Flush remainder with water (absorb the remainder with e.g. vermiculite). See also under Safe Handling.

STABILITY AND REACTIVITY

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STABILITY: Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID: Heat

MATERIALS TO AVOID: Strong oxidising agents. Strong Acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrous gases may be produced. In combustion emits toxic fumes.

OTHER INFORMATION: Oxidising properties.

TOXICOLOGICAL INFORMATION

No experimental toxicological data of the product as such available. From structurally related products the following may be expected;

ACUTE TOXICITY:

Oral LD50 (rat): >5000 mg / kg

IRRITATION:

Skin: Non-irritating

Eye: Non-irritating

ECOLOGICAL INFORMATION

No experimental ecological data is available on the preparation as such. From structurally related products the following may be expected:

MOBILITY: Soluble in water

DEGRATION BIOTIC: Not readily biodegradable. All nutrient present are fundamentally inorganic and persistent.

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REGULATORY INFORMATION

CHEMICAL DESCRIPTION: Ethylenediaminetetraacetic acid, ferric sodium complex, approx 100%

EC-NUMBER: Not applicable

SYMBOL (S): None

RISK PHRASES: None

SAFETY PHRASES: None

WASSERGEFAHRDUNGSKLASSE (WGK): 2 (internal assessment)

NOTICE: Information for this product is believed to be reliable, however buyer and user assume all risk of use, handling and storage whether in accordance with directions or not. Barmac Industries Pty Ltd and its agents give no guarantee or warranty of any kind express or implied concerning the use of this product and will not accept any responsibility whatsoever whether in contract or tort for any loss including consequential loss arising out of the use of this product or caused by this product.
