

MATERIAL SAFETY DATA SHEET - Iron Kleen Solid

SECTION 1 – IDENTIFICATION & USE

TRADE NAMES : Iron Kleen Solid
CHEMICAL NAME: Ethanedioic Acid Dihydrate
U.N. NO. : UN 3261
TECHNICAL NAME : Slightly Corrosive Solid, Organic Acid N.O.S Ethanedioic Acid Dihydrate (Oxalic acid)
DG CLASS : 8
PACKAGING GP. : III
HAZCHEM : 2X
POISON SCHEDULE : Schedule 6
APPLICATION & USES : Cleaning compounds-rust removal; leather tanning. A cleaning agent to remove iron oxide stains from surfaces.

MANUFACTURER Aquabiotics Pty Ltd
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SECTION 2 – COMPOSITION & INGREDIENTS

CHEMICAL COMPOSITION Ethanedioic Acid Dihydrate 144-62-7 >90%
N.O.S n/a <10%
A pale white unconsolidated crystalline solid mixture. Non-flammable, non-volatile.
Solubility in water is approximately 100 g/L. odorless

CLASSIFICATION Slightly Corrosive Solid (III)

SECTION 3 – IDENTIFICATION OF HAZARD & RISK

CLASSIFICATION Corrosive. Harmful in Concentrated State
RISK PHRASES **R21/22:** Harmful in contact with skin and if swallowed.
SAFETY / HAZARD PHRASES **S2:** Keep out of reach of children.
S24/25: Avoid contact with skin and eyes.
OTHER Combustible solid. On burning will emit toxic or noxious fumes (carbon monoxide & carbon dioxide). Can react spontaneously with sodium hypochlorite.

SECTION 4 – FIRST AID MEASURES

HEALTH EFFECTS
ACUTE EFFECTS
SWALLOWED: Corrosive. Swallowing may cause severe burns of mouth, throat and stomach. Symptoms may include vomiting, abdominal pain, collapse and possible convulsions.
EYE: Corrosive to eyes. Contamination of eyes can result in permanent injury.
SKIN: Contact with skin may cause irritation and prolonged contact may cause corrosive injury.
INHALED: No Dust Hazard
CHRONIC EFFECTS No information available.

FIRST AID
SWALLOWED: IF conscious, immediately rinse mouth with water & give water to drink. DO NOT induce vomiting. Seek immediate medical assistance. Do not give liquids to an unconscious person.
EYE: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open while washing. If pain persists seek immediate medical assistance.
SKIN: Remove contaminated clothing. Wash affected area with large amount of water. If irritation develops seek immediate medical assistance.
INHALED: Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing labored ensure airways are clear and administer oxygen. If breathing has stopped apply artificial respiration at once. Seek immediate medical assistance.
ADVICE TO DOCTOR Treat symptomatically

SECTION 5 – FIRE MEASURES

GENERAL: Decomposes on rapid heating at ca. 150 C, which will emit toxic or noxious fumes of carbon dioxide and carbon monoxide. Can react spontaneously with sodium hypochlorite
EXTINGUISHERS: Use extinguishing media appropriate for surrounding fire. Water spray, foam, carbon dioxide or dry chemical powder.
FIRE FIGHTERS: Fire fighters to wear self contained breathing apparatus and full protective clothing when fighting fire
GENERAL: Move products out of fire area if safe to do so. Cool containers if feasible. Stay upwind of fumes, keep out of low areas.

SECTION 6 – SPILLS MEASURES

Wear proper protective equipment to prevent skin and eye contact.
Cover with damp absorbent (sand, soil or inert material). Sweep up. With a clean shovel, transfer spilled material into clean-labeled containers for disposal.

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Prevent large quantities from entering drains, sewers, streams or other bodies of water. If contamination of sewers or waterways has occurred, advise the local emergency services.
Dispose in accordance with federal, state or local regulations.

SECTION 8 – PERSONEL PROTECTION & EXPOSURE LIMITS

LONG TERM EXPOSURE LIMITS: Skin Irritation TWA: 1 mg/m³ averaged over an 8-hour work shift. Skin Irritation STEL: 2 mg/m³, not to be exceeded during any 15-minute work period.
(Product is manufactured such that no dust hazard exists)
As published by the National Occupational Health and Safety Commission (Worksafe Australia).
EXPOSURE CONTROL: Avoid skin and eye contact.
Body Protection: Overalls & Safety Boots to EN 369
Eye Protection: Safety Glasses or goggles to EN 166
Hand Protection: Chemical resistant gloves to EN374-1 (Chemical), EN388 (Mechanical), EN420 (Marking)

Always wash hands before smoking, eating, drinking or using the toilet.

MANUFACTURING CONTROLS Avoid generating and inhaling dusts.

SECTION 9 – PHYSICAL PROPERTIES

APPEARANCE: A white unconsolidated crystalline solid mixture. Non-flammable, non-volatile. Solubility in water is approximately 100 g/L. odorless.
MELTING POINT: 187°C
BOILING POINTS: 149 to 160°C (for the di-hydrate)
VAPOUR PRESSURE (20°C): < 0.14 Pa
SPECIFIC GRAVITY (25°C): 1.65
FLASH POINT (OPEN CUP): No data available
EXPLOSION LIMITS: No data available
SOLUBILITY IN WATER: Soluble in water
AUTOIGNITION TEMP: No data available
VAPOUR DENSITY: No data available
pH: 2 approx. in its concentrated form
STORAGE COLOUR CODE: White (Corrosive)

SECTION 10 – STABILITY & REACTIVITY

STABILITY: Decomposes on rapid heating at ca. 150 C
REACTIVITY: Vigorous reaction may occur with alkalis. May react violently with alkali metals producing flammable hydrogen gas. Reacts strongly with oxidizing agents.
Can react spontaneously with sodium hypochlorite.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Oral LD50 (rat): 375 mg/kg
Exposure to this compound can result in systemic effects including kidney damage, muscle twitching, cramps and central nervous system effects.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: Avoid contaminating waterways in raw or concentrated state.
BIODEGRADABILITY: *This material is considered to be highly and fully biodegradable*
BIOACCUMULATION: No data available
GENERAL: No ecological problems are expected when the product is handled and used with due care

SECTION 13 – DISPOSAL

Mix with weak alkaline solution and dispose of in accordance with Federal, State or Local regulations.

SECTION 14 – TRANSPORT

With reference to the UNECE Committee of Experts on the Transport of Dangerous Goods, The European Agreement concerning the International Carriage of Dangerous Goods by Road.

Annex A: Part 3 Dangerous goods list, special provisions and exemptions related to dangerous goods packed in limited quantities

LIMITED QUANTITIES: LQ applies if the maximum package gross weight is 5kg or below, then this product is not classified as a dangerous good for road or rail transport within the EEC.
Gross Weight ≤ 24kg

PACKING: Products are packed in plastic bags within sealed polyethylene press on lid pails (max. 20kg) or woven plastic or plastic film bags (max. 20kg)

SECTION 16 – OTHER INFORMATION

Title: MSDS Iron Kleen Solid Concentrate

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The information contained herein is based on the present state of knowledge. It characterizes the product with regard to the appropriate safety precautions.