



New Boraste Agrotech Pvt. Ltd.

(AN ISO 9001: 2015 | ISO 14001: 2015 | OHSAS 45001: 2018 CERTIFIED COMPANY)

GENERIC MATERIAL SAFETY DATA SHEET (MSDS) FOR FERROUS SULPHATE HEPTAHYDRATE

NO	SECTIONS	DETAILED EXPLANATION
1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	Names: Ferrous Sulphate Heptahydrate, Iron Vitrol; Green Vitrol. CAS NO. : 7782-63-0 EINECS : 231-753-5 Chemical Formula : $FeSO_4 \cdot 7H_2O$ Uses: Flocculant in Water treatment, reducing agent, Wood preservative, Fertilizer. Contact Information: NEW BORASTE AGROTECH PRIVATE LIMITED GAT NO – 292, PIMPALGAON KETAKI ROAD, TAL – DINDORI, DIST – NASHIK, MAHARASHTRA INDIA. E.mail : info@newborasteagrotech.com / marketing@newborasteagrotech.com Contact No.: 8080097607/7720026974.
2	HAZARD IDENTIFICATION	May cause irritating Eyes, Skin and harmful if swallow Carcinogen status : OSHAA, NTP, IARC : None
3	COMPOSITION / INGREDIENTS	Ingredient : Ferrous sulphate Heptahydrate : 7782-63-0 > 98.0%, Sulfuric Acid : 7664-93-9 < 0.25%, Moisture : 7732-18-5 < 0.5%
4	FIRST AID MEASURES	Swallowed: If conscious wash out mouth with water and give to drink. Do not induce vomiting. Seek immediate medical attention. Eye: immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be help open. Seek medical advice. Skin: Wash with plenty of soap and water. Remove contaminated clothing, launder clothes before reuse. If irritation persists seek medical advice. Inhaled: Remove victim from exposure to fresh air immediately. If not breathing apply artificial respiration. If breathing is difficult given oxygen. Seek immediate medical advice.
5	FIRE FIGHTING MEASURES	None Flammable and not support combustion product. Use extinguishing media appropriate for surrounding fire. When heated to decomposition may produce toxic SOx fumes. Fire fighters to wear self- contained breathing apparatus if risk of exposure to vapour or products of combustion.
6	ACCIDENTAL RELEASE MEASURES	Wear protective equipment to prevent skin eye contamination and inhalation of dust. Sweep up but avoid generating dust. Collect and place in suitably labeled containers.
7	HANDLING AND STORAGE	Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Storage Keep containers tightly closed in a dry area, cool and well-ventilated place, away from direct sunlight and other sources of heat or ignition.

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PAN: AAHCN8687J CIN: U01110MH2021PTC369636 REGISTRATION NUMBER: 369636 GSTIN: 27AAHCN8687J1ZM

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8	EXPOSURE CONTROLS AND PERSONAL PROTECTION	<p>Engineering Measures Ensure adequate exhaust ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.</p> <p>Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Eye/face protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA' eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.</p> <p>Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced</p>
9	PHYSICAL AND CHEMICAL PROPERTIES	<p>Appearance: Bluish green to Off white crystalline solid</p> <p>Odour : Odourless</p> <p>Melting Point : 64 Deg C</p> <p>Boiling Point : 300 Deg C</p> <p>Specific Gravity (20 Deg C) : 1.89</p> <p>Vapour Density (Air=1) : Not Applicable</p> <p>Flash Point : Not Applicable (Non-flammable)</p> <p>pH (10% solution) : 3.0 – 3.7</p> <p>Solubility in water : 48.6 g/100g @ 50 Deg C</p> <p>Molecular formula and weight: FeSO₄.7 H₂O 278.01 gm/mole</p>
10	STABILITY AND REACTIVITY	<p>Stable under normal temperatures and pressures. Incompatible with alkalis, carbonates, gold salts, lead acetate, lime water, potassium, potassium iodide, silver salts, sodium borate, sodium tartrate tannin. Substance oxidizes on contact with moisture to form ferric sulphate.</p>
11	TOXICOLOGICAL INFORMATION	<p>Harmful if swallowed. Ingestion can result in nausea, vomiting, diarrhea and abdominal Pain. Ingestion of large doses can lead to cyanosis, pulmonary oedema and convulsions leading to coma. Evidence from animal tests indicate that repeated or prolonged exposure to this chemical could result in damage to liver and kidneys.</p> <p>EYE: May cause mild eye irritation.</p> <p>SKIN: May cause irritation to skin.</p> <p>INHALED: Inhalation of dust may cause irritation to the respiratory tract.</p> <p>CHRONIC EFFECTS: Repeated exposure may increase iron levels in the liver, spleen and Lymphatic system. This could lead to damage to the spleen and liver.</p>
12	ECOLOGICAL INFORMATION	<p>No data available.</p> <p>Hazard Category: Harmful</p> <p>RISK PHRASES: R22 HARMFUL IF SWALLOWED.</p>

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		SAFETY PHRASES: S24/25 Avoid contact with eyes and skin, S22 do not breathe dust.
13	DISPOSAL CONSIDERATIONS	Dispose according to applicable Environment regulations of local and State Authority.
14	TRANSPORT INFORMATION	DOT' Classification: Not a DOT controlled material (USA). RID (Railway), ADR (Road), IMDG (Sea) and IATA (Air) : Not regulated as Dangerous And Hazardous goods class
15	REGULATORY INFORMATION	United States HCS Classification : Toxic material Irritating material Target organ effects U.S. Federal regulations : TSCA 6 proposed risk management: Lead TSCA 8(b) inventory: All components listed. TSCA 12(b) annual export notification: lead.
16	OTHER INFORMATION	Provide adequate information, instructions and training to precautionary handling of the material by a properly trained person.

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