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Hefei TNJ Chemical Industry Co.,Ltd.
B910-911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China
Tel : (0086) 551 65418678
Fax: (0086) 551 65418697
Email: info@tnjchem.com
Site: www.tnjchem.com

Material Safety Data Sheet

DTPA FeNa

Section 1: Chemical Product and Company Identification

Molecular formula:C14H19FeN3NaO10
CAS Nr: 12389-75-2
Molecular weight: 468.15

Synonyms: Iron sodium DTPA; Sodium iron DTPA; Sprint 330
Contact Information for Emergency: (0086) 551 65418678

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230004Anhui
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
DTPA FeNa	12389-75-2	92-100

Section 3: Hazards Identification

Yellow-green, odorless powder. Contact with dust may cause irritation to eyes and respiratory tract. Possible development hazard – contains material (DTPA) that may adversely affect the developing fetus based on animal data. Not a D.O.T. regulated hazardous material.
HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Section 4: First Aid Measures

Inhalation: Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Move victim to fresh air. If breathing becomes difficult, oxygen may be given, preferably under physician’ s advice. Get medical attention if symptoms persist.

Eyes: Flush eyes with large quantities of running water for a minimum of 15 minutes. If the victim is wearing contact lenses, remove them. Hold the eyelids part during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time. Get medical attention if irritation occurs.

Skin: Remove contaminated clothing, shoes and equipment. Flush skin with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing and shoes before reuse. Get medical attention if irritation occurs.

Ingestion: Call a physician immediately. ONLY induce vomiting at the instruction of a physician. If victim is conscious, rinse mouth and give water to drink. Never give anything by mouth to an unconscious person.

Note to Physician: Attending physician should treat exposed patients symptomatically.

Section 5: Fire and Explosion Data

Flash Point: Noncombustible.

Test Method: Not applicable.

LEL Flammable Limits: Not applicable.

UEL Flammable Limits: Not applicable.

Autoignition Temperature: > 392° F / >200° C (glowing of 5mm product layer).

Flammability Classification: Noncombustible.

Known Hazardous Products of Combustion: Thermal decomposition products may release toxic and/or hazardous fumes and gases, including nitrogen oxides and carbon oxides.

Properties that Initiate/Contribute to Intensity of Fire: None.

Potential For Dust Explosion: Possible.

Reactions that Release Flammable Gases or Vapors: Not known.

Potential For Release of Flammable Vapors: None.

Unusual Fire & Explosion Hazards: None.

Extinguishing Media: Use agents appropriate to surrounding fire: water fog or spray, dry chemical, foam or CO 2 extinguishers.

Special Firefighting Procedures: Wear full-face, self-contained breathing apparatus and impervious protective clothing.

Section 6: Accidental Release Measures

Containment: Safely stop source of spill.

Clean Up: Sweep up spilled solid material, being careful not to create dust. Return sweepings to stock or, if contaminated, place into a chemical waste container for disposal according to local, state or federal regulations. Flush remainder with water.

Evacuation: Restrict non-essential personnel from area.

Section 7: Handling and Storage

Storage: Keep containers closed and dry as product is hygroscopic. The material is suitable for any general chemical storage area. Isolate from strong oxidizers. Store in original packing in a cool and dry place at ambient temperature (below 25° C / 77° F). Containers should not be opened until ready for use. It is recommended to re-test the product after three years in storage.

Handling: Avoid inhalation and prolonged and/or repeated skin and eye contact. Avoid dust generation. In certain concentrations, this product may form an explosive dust-air mixture.

Section 8: Exposure Controls/Personal Protection

Eyes: Indirect vented, dust-tight goggles should be worn when handling this product. As a general rule, do not wear contact lenses when handling.

Skin: Skin contact with the product should be minimized or prevented through the use of suitable protective clothing, gloves and footwear selected according to use condition exposure potential. For full contact use, 100% nitrile gloves are recommended.

Respiratory: If handling operations generate dust, wear a NIOSH-approved half-mask, air purifying respirator with dust, mist and fume filters to reduce potential for inhalation exposure. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the work shift) to assure breakthrough exposure does not occur.

Ventilation: Special ventilation is usually not required under normal use conditions. However, ensure that existing ventilation is sufficient to prevent the circulation and/or accumulation of dust in the air.

Section 9: Physical and Chemical Properties

Appearance: Yellow-green powder.

Odor: No odor.

pH: ~3 (1% solution).

Vapor Pressure: Not applicable.

Vapor Density (Air=1): Not applicable.

Boiling Point: Not applicable.

Freezing Point: Not applicable.

Water Solubility: 110 g/L (68° F / 20° C); 300 g/L (176° F / 80° C)

Density: 650-750 kg/m 3 .

Evaporation Rate: Not determined.

Viscosity: Not determined.

% Volatile: Not determined.

Octanol/Water Partition Coefficient: <0.

Saturated Vapor Concentration: Not available.

Section 10: Stability and Reactivity Data

Stability: This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

Conditions To Avoid / Incompatibility: This product is incompatible with strong oxidizers. Avoid prolonged storage at elevated temperatures. Avoid humid conditions as product is hygroscopic. Product layer on hot surface might cause glowing or autoignition.

Hazardous Decomposition Products: Under fire conditions, the product may support combustion and decomposes to give off carbon oxides fumes (CO, CO 2), nitrogen oxides
and water vapor.

Hazardous Polymerization: Not expected to occur under normal temperatures and pressures.

Section 11: Potential Health Effects

Acute Effects:

Inhalation: The acute LC 50 for this product is not available. Inhalation of dust may cause discomfort and/or irritation of the respiratory system. No known chronic effects.

Skin: Dermal toxicity for this product is not available. However, it is not considered to be irritating to skin based on tests with similar products. No known chronic effects.

Eyes: While this product has not been tested, it is expected that it would be minimally irritating to eyes based on tests with similar products.

Ingestion: The acute LD 50 for this product is expected to be greater than 2000 mg/kg in rats based on data from similar products. No known chronic effects.

Chronic Effects:

Sensitization: No known effects.

Carcinogenicity: IARC, NTP, ACGIH and OSHA do not classify this material as a carcinogen or suspect carcinogen.

Mutagenicity: No data available.

Reproductive toxicity: The following data is available for a related product, pentasodium DTPA (Na 5 DTPA): "A
maternally non-toxic dose (400 mg/kg) of a test article with 40% Na 5 DTPA, administered orally to pregnant rats, caused a significant increase in skeletal retardations in the developing fetuses. In the presence of maternal toxicity, a does of 1000 mg/kg caused a statistically significant increase in skeletal malformation, variations, and retardation in rat fetuses. These effects may be due to zinc deficiency caused by chelation of zinc by Na 5 DTPA."

Section 12: Ecological Information

Ecotoxicity: No data available on this product. However, it is not expected to be harmful to aquatic life, based on data with related products.

Chemical Fate: This product is not expected to enter the atmosphere significantly due to its water solubility. C.O.D. = ~750 mg/g..

Biodegradation: This product is not expected to be readily biodegradable based on test with structurally related products.

Section 13: Disposal Considerations

Waste Disposal: In its unused condition, this product is not considered to be a RCRA-defined hazardous waste by characteristics or listings. It is the responsibility of the waste generator to evaluate whether his wastes

are hazardous by characteristics or listing. Dispose in accordance with all local, state and federal regulations. NOTE: State and local regulations may be more stringent than federal regulations. Container Disposal: Containers should be cleaned of residue product before disposal. Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers should be disposed of or shipped in accordance with all applicable laws and regulations.**I**

Section 14: Transport Information

D.O.T.: Not D.O.T. Regulated.

Other Shipping Description: Fertilizing Compounds (Manufactured), Dry.

NMFC Item 68140 Sub 4, LTL Class 60

Section 15: Other Regulatory Information

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Last Updated: 2013.8.14 16:00 pm

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.