

Finding New Ways to Improve the Treatment of Trees and Plants.

SAFETY DATA SHEET

PRODUCT NAME: Iron Max 12-0-0 6% Fe 2% Mn

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTOR: **Quest Products Corporation** ADDRESS: 23611 Linwood Road (K-32) Linwood, KS 66052

PHONE: (785)-542-2577

EMERGENCY CHEMTREC PHONE - US & Canada: 1-800-424-9300

CHEMICAL NAME: Inorganic/Organic Chemical Fertilizer Mixture

CHEMICAL FAMILY: Fertilizer **CHEMICAL FORMULA: Mixture**

PRODUCT USE: Fertlizer SECTION 1 NOTES: None

SECTION 2: HAZARDS IDENTIFIED

GHS Ratings:

Signal Word: WARNING

GHS Hazards

H303 – May be harmful if swallowed.

H316 - Causes mild skin irritation.

H320 – Causes mild eye irritation. **H333 –** May be harmful if inhaled.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS Precautions
P101 – If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.
P233 - Keep container tightly closed.
P234 - Keep only in original container.
P261 – Avoid breathing fumes/vapors.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 – Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye protection.

SECTION 3: COMPONENT INFORMATION

INGREDIENT	CAS NO.	<u>% WT</u>
Urea	57-13-6	12.0%
Ferrous Sulfate	<u>7720-78-7</u>	6.0%
Manganese Sulfate	7320-34-5_	1.0%
Manganese Citrate	<u>10</u> 024-66-5	1.0%
Citrič Acid	77-92-9	1.0%
Proprietary Formulation Ingredients		100%

SECTION 3 NOTES: If Chemical Name/CAS Number is listed as "Proprietary" and/or the Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

CARCINOGENICITY

OSHA: ACGIH: No NTP: No IARC: No OTHER: No



SECTION 4: FIRST AID MEASURES

Have the product label and SDS with you when calling a poison control center or doctor, or going for treatment, if able.

Never give anything by mouth to an unconscious person.

IF IN EYES: Rinse with plenty of running water for at least 15 minutes. Remove contact lenses if present and easy to do so, after the first 5 minutes - then continue rinsing. Seek medical advice or attention if condition worsens or symptoms persist.

IF ON SKIN OR CLOTHING: Remove contaminated clothing, wash before reuse. Wash skin with plenty of soap and water. Seek medical advice if irritation develops or persists.

IF SWALLOWED: If conscious and alert, give 2 to 4 glasses of water to dilute substance. Do not induce vomiting unless instructed by CHEMTREC representatives or medical professionals.

IF INHALED: Remove to fresh air and ventilate suspected area. Keep at rest in a position comfortable for breathing. Seek medical attention if difficulty breathing develops, condition declines, or symptoms persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 4 NOTES: May cause eye or skin irritation on contact, or digestive tract irritation if ingested.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT °C: Not applicable.

IN CASE OF FIRE: Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol,

polymer, or ordinary) for large fires. Water stream may spread flames.

SPECIAL FIRE FIGHTING PROCEDURES: Use alcohol-type or universal-type foams on larger fires. Smaller fires should be extinguished

with carbon dioxide or dry chemical. Do not use water or foam directly on the fire. Do not release contaminated runoff from fire control methods to sewers or waterways. Use self-contained breathing apparatus with fighting any fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When ignited, produces toxic and irritating fumes. Wear a MSHA/NIOSH-approved or

equivalent respiratory protection.

HAZARDOUS COMBUSTION PRODUCTS: Ammonia, nitrogen oxides, oxides of carbon, phosphorus oxides.

SECTION 5 NOTES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Stop the source of the spill immediately if it safe to do so. Ventilate the affected area. Wear

protective clothing as described in Section 8 of this SDS. Avoid runoff into storm sewers and ditches which lead to waterways. Material should be collected and disposed in proper

manner. Contained materials may be salvaged for use, if uncontaminated.

CLEAN-UP MEASURES: Follow federal, state and local regulations for liquid and solid waste disposal. Absorb

material with sand, kitty litter or other inert material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state and local regulations. Wear suitable protective

equipment.

SECTION 6 NOTES: Do not breathe mist or vapors. Do not get in eyes, on skin or on clothing. Do not ingest. See

section 1 for CHEMTREC emergency phone number. See Section 12 for additional Ecological

Information.

SECTION 7: HANDLING AND STORAGE

HANDLING Keep out of reach of children. Read label before use. Handle in accordance with good industrial hygiene and

safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Avoid direct contact with substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid breathing spray mist. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Wear protective gloves, protective clothing, eye

protection and face protection.

STORAGE: Store in a cool, dry, well-ventilated place. Keep in original container tightly closed. Do not reuse empty container.

Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not

contaminate water supplies.

SECTION 7 NOTES: INCOMPATIBLE MATERIALS – Strong oxidizing agents, strong acids, strong alkalis.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EXPOSURE GUIDELINES: CAS Number ACGIH TLV OSHA PEL NIOSH REL Chemical Name 57-13-6 NE Urea 15mg/M³ 15mg/M³ Ferrous Sulfate 7720-78-7 1mg/M³ 1mg/M³ NF Manganese Sulfate 7320-34-5 $0.2mq/M^3$ 5mg/M³ 1mg/M³ $0.1 mg/M^3$ Manganese Citrate 10024-66-5 $5mg/M^3$ 1mg/M³ Citric Acid 77-92-9 10mg/M³ NE

VENTILATION: Normal room ventilation (mechanical) or outdoor use should be satisfactory.

RESPIRATORY PROTECTION: Wear a NIOSH/OSHA approved respirator, approved for use with propionic acid, if necessary.

EYE PROTECTION: Safety glasses with side shields as described by OSHA's eye and face protection regulations in 29CFR

1910.133

SKIN PROTECTION: Wear impervious protective clothing, long pants and long-sleeved shirt, waterproof gloves (including

socks and boots), lab coat, apron or coveralls, as appropriate – to prevent skin contact.

OTHER PROTECTIVE **CLOTHING/EQUIPMENT:** Eye wash and safety shower should be easily accessible.

WORK HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling product and before eating, drinking, or using

tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

EXPOSURE GUIDELINES: If exposed, see section 4 for acute exposure first aid.

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FLAMMABLE LIMITS: Not Determined APPEARANCE: Clear/Brown Liquid

@ Unknown VAPOR PRESSURE (mmHg): ODOR: Ammonia

F: N/A C: N/A

VAPOR DENSITY (AIR = 1): @ Unknown PHYSICAL STATE: Liquid

F: N/A C: N/A

1.378

N/A

N/A

Non-viscous

pH AS SUPPLIED: 4.5

pH (Other):

INITIAL BOILING POINT:

ORDER THRESHOLD;

F: Not Determined C: Not Determined

Undetermined

SPECIFIC GRAVITY (water = 1):

EVAPORATION RATE: BASIS (butyl acetate=1):

BOILING POINT RANGE: F: Not Determined C: Not Determined

SOLUBILITY IN WATER: 100% Miscible

F: Not Determined C: Not Determined **MELTING POINT:**

PARTITION COEFFICIENT

FREEZING POINT: F: <32° C: <0°

(n-octanol/water):

No Data Available

METHOD USED: N/A

AUTO-IGNITION TEMPERATURE:

FLASH POINT: F: Not Determined C: Not Determined

DECOMPOSITION TEMPERATURE: N/A

PERCENT VOLATILE (by volume): VISCOSITY:

SECTION 9 NOTES: VALUES ARE NOT PRODUCT SPECIFICATIONS.

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable • Unstable •

CONDITIONS TO MAINTAIN STABILITY: Store in a cool, well-ventilated place away from sources of heat and direct sunlight.

Keep container tightly closed. Keep only in original container.

INCOMPATIBILITY (MATERIAL TO AVOID): High pH products.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: When ignited, produces toxic and irritating fumes. May aggravate respiratory

conditions. Wear a NIOSH-certified respirator when fighting fires.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): Will not occur.

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: May be harmful if ingested. Primary symptoms include nausea, vomiting, chills, diarrhea.

ACUTE INHALATION TOXICITY: Prolonged contact may cause redness and/or irritation.

Harmful if inhaled. Avoid breathing in vapors or mists.

EYE DAMAGE / IRRITATION: Direct contact with eyes will cause temporary irritation.

SKIN CORROSION: Not classified.

RESPIRATORY SENSITIZATION: Not classified.

CARCINOGENITY: Not suspected to be a carcinogen by OSHA, IARC, NTP or ACGIH.

SECTION 11 NOTES: None.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful, or damaging effect on the environment. This product is not intended for use in aquatic settings. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate

water when disposing of equipment wash waters or rinsate.

MOBILITY: Suspected to be mobile in soil media as the product is aqueous.

PERSISTENCE/DEGRADABILITY: Not Determined.

BIOACCUMULATION: Not Determined.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. Dispose of contents in container to an

approved waste disposal facility in accordance with all federal, state and local regulations.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container.

RCRA HAZARD CLASS: Not subject to RCRA Subtitle C Regulation

CALIFORNIA HAZARDOUS WASTE STATUS: Not listed.

SECTION 13 NOTES: None.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

DOT Shipping Description: Not Regulated.

U.S. Surface Freight Classification: NMFC 101716, class 50 (Liquid). Consult appropriate ICAO/IATA and IMDG regulations for shipment

requirements in the Air and Maritime shipping modes.

OTHER AGENCIES: None.

SECTION 14 NOTES: Please see current shipping paper for most up-to-date shipping information, including exemptions and

special circumstances.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Toxic Substance Control Act

Urea is listed on the TSCA inventory list.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

California Proposition 65

This product does not contain any Proposition 65 chemicals.

SECTION 15 NOTES: May be harmful if swallowed, absorbed through skin or inhaled. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

SECTION 16: OTHER INFORMATION

DATE OF PREPARATION/LAST REVISION: September 25th, 2024

OTHER INFORMATION:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC).

The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC, and, as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its preparation. While we strive to ensure the accuracy and completeness of the information provided, we make no warranties or representations, express or implied, about the accuracy, reliability, or completeness of the data. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. The SDS may not encompass all possible scenarios or conditions under which the chemicals might be used or encountered. Users are responsible for ensuring that they have the most current version of this SDS and for understanding its contents. Each user should identify his intended uses of this material and determine whether they are appropriate. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release - and is not to be considered permission, inducement or recommendation to practice any patented invention without a license. The information relates only to the specific material designated, and may not be valid for such material used in combination with any other materials, or in any process, unless specified in the text. All data is offered for consideration, investigation and verification purposes only. To the extent permitted by applicable law, the manufacturer shall not be liable for any direct, indirect, incidental, or consequential damages arising out of the use or misuse of the chemicals described in this SDS. The responsibility for the safe use, handling, storage, and disposal of these chemicals lies solely with the user. It is the user's obligation to comply with all local, state, and federal regulations and to take appropriate measures to ensure the safety of personnel and property. To the extent permitted by applicable law. Quest Products LLC's liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.

This SDS is intended to comply with OSHA regulations under the Hazard Communication Standard (29 CFR 1910.1200) and other applicable regulatory requirements. Users are encouraged to consult additional resources and seek professional advice to ensure comprehensive compliance with all relevant health, safety, and environmental regulations. This SDS may be updated periodically to reflect new information or regulatory changes. Users should ensure they are referring to the most recent version of the SDS. Inclusion of any

specific product, material, or process in this SDS does not imply endorsement or approval by the manufacturer. The information provided is not intended to replace professional judgment or regulatory advice.		