

MATERIAL SAFETY DATA SHEET MSDS



FULLTEC TOP MIX

MSDS PRO FER
Revision 03
22/08/2024
Page 1 Of 6

1. IDENTIFICATION OF PRODUCTS AND COMPANIES

PRODUCT NAME: Fulltec Top Mix.

INTERNAL PRODUCT IDENTIFICATION CODE: Not available.

MAIN RECOMMENDED USES FOR THE PRODUCT: Exclusively for agricultural use.

COMPANY NAME: LATINA Agro Indústria e Comércio de Fertilizantes Ltda.

ADDRESS: Rodovia PR-317, 8.001, Parque Industrial Sul, CEP 87065-005, Maringá, PR, Brazil.

CONTACT PHONE : +55 (44) 3046-2600

EMAIL: contato@spraytec.com

2. HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

- Carcinogenicity – Category 1A
- Skin Corrosion/Irritation – Category 2
- Serious Eye Injury/Eye Irritation – Category 1
- Hazardous to the aquatic environment – Acute – Category 3
- Skin sensitization – Category 1
- Acute Toxicity – Oral – Category 5

GS LABELING ELEMENTS:

- **PICTOGRAMS:**



- **WARNING:**

- **DANGER QUOTES:**

- **WARNING PHRASES:**

- **GENERAL:**

- **PREVENTION:**

DANGER

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H317 may cause allergic skin reactions.

H318 Causes serious eye damage.

H350 may cause cancer.

H402 Harmful to aquatic organisms.

P102 Keep out of reach of children.

Q103 Read the label before using the product.

P201 Get specific instructions before use.

P202 Do not handle the product until you have read and understood all safety precautions.

P261 Avoid inhaling dust/fumes/gases/mists/vapors/aerosols.

P264 Wash thoroughly after handling.

P272 Contaminated work clothes may not leave the workplace.

P273 Avoid release to the environment.

Rodovia PR 317, 8065 - Zona 47 Maringá-PR Cep: 87.065-005

+55 44 3046.2600



MATERIAL SAFETY DATA SHEET MSDS



FULLTEC TOP MIX

MSDS PRO FER
Revision 03
22/08/2024
Page 2 Of 6

– **EMERGENCY RESPONSE:**

P280 Wear protective gloves/protective clothing/eye protection/face shield.

P302 + P352 IN CASE OF CONTACT WITH SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IN CASE OF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. In the case of using contact lenses, remove them if it is easy. Continue rinsing.

P308 + P313 IF EXPOSURE or suspected exposure: Consult a physician.

P310 Contact a POISON CONTROL CENTER or physician immediately.

P312 If you feel unwell, contact a POISON CENTER/doctor.

P321 Specific treatment.

P332 + P313 In case of skin irritation: Consult a doctor.

P333 + P313 In case of skin irritation or rash: Consult a doctor.

P362 + P364 Remove all contaminated clothing and wash it before using it again.

– **STORAGE:**

P405 Store in a lockable place.

– **DISPOSAL:**

P501 Dispose of contents/container in accordance with local regulations.

OTHER HAZARDS THAT DO NOT GIVE RISE TO A CLASSIFICATION: No other hazards.

3. COMPOSITION AND INGREDIENT INFORMATION

MIXTURE

Classification: Adjuvant;

Class: compatibilizer.

Type of formulation: Fluid (solution).

INGREDIENTS OR IMPURITIES THAT CONTRIBUTE TO THE HAZARD:

Component	CAS No.	% wt/weight
Industrial Secret 01	Industrial Secret 01	60,00%
Ethoxylated fatty alcohol	68439-46-3	36,40%

4. FIRST AID MEASURES

- **INHALATION:** if not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
- **CONTACT WITH SKIN:** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
- **EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
- **INTAKE:** Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR LATE: Causes burns by all exposure routes. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus

MATERIAL SAFETY DATA SHEET MSDS



FULLTEC TOP MIX

MSDS PRO FER
Revision 03
22/08/2024
Page 3 Of 6

should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

NOTES TO DOCTOR: Treat symptomatically.

5. FIRE EXTINGUISHING MEASURES

EXTINGUISHING MEANS: CO₂, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

SPECIFIC HAZARDS OF THE SUBSTANCE OR MIXTURE: Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

FIREFIGHTING EQUIPMENT PROTECTIVE MEASURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases.

HAZARDOUS COMBUSTION PRODUCTS: Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂). Toxic fumes.

NFPA			
Health: 3	Flammability: 2	Instability: 1	Physical Hazards: N/a

6. SPILL OR LEAK CONTROL MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

- **FOR PERSONNEL WHO ARE NOT PART OF THE EMERGENCY SERVICES:** Evacuate and cordon off the area.
- **FOR EMERGENCY SERVICES PERSONNEL:** Wear full PPE, safety goggles, safety gloves, appropriate protective clothing, and safety shoes. In case of large leaks, where the exposure is large, it is recommended to use a respiratory protection mask with a dust filter.

ENVIRONMENTAL PRECAUTIONS: Contain leaks and keep them away from manholes and bodies of water. Check for contamination of the drinking water supply.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: In the case of small leaks, carefully contain the spill. In the case of large leaks, carefully contain the spill. Stop the flow and stay away from rivers and streams. Check for contamination in the drinking water supply.

7. HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS: Wear proper PPE. Avoid physical damage to containers.

SAFE STORAGE CONDITIONS, INCLUDING ANY INCOMPATIBILITIES: The product should be stored in a cool, dry, ventilated place away from direct sunlight. Protect the package from physical damage. Keep the product in its original packaging. They are incompatible with the product: strong bases, oxidizing products, and metals that can react with acid.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

CONTROL PARAMETERS: Not available.

MATERIAL SAFETY DATA SHEET MSDS



FULLTEC TOP MIX

MSDS PRO FER
Revision 03
22/08/2024
Page 4 Of 6

ENGINEERING CONTROL MEASURES: Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION MEASURES:

- **EYE/FACE PROTECTION:** Wear chemical-resistant goggles with side protection to prevent splashes.
- **SKIN PROTECTION:** Wear waterproof clothing, boots, and rubber gloves.
- **RESPIRATORY PROTECTION:** Wear a mask with a P2 particulate filter.
- **THERMAL RISKS:** Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid at room temperature, brown.

ODOR AND ODOR LIMIT: Astringent odor/rotten-egg like.

pH: 9.50 to 11.00 (1.0 ml/L solution).

MELTING POINT/FREEZING POINT: -60°C

INITIAL BOILING POINT AND BOILING TEMPERATURE RANGE: 145°C

FLASH POINT: 32°C

EVAPORATION RATE: Not available.

FLAMMABILITY (SOLID; GAS): Not available.

LOWER/UPPER LIMIT OF FLAMMABILITY OR EXPLOSIVENESS:

Upper: 12.35%

Lower: 2.30%

VAPOR PRESSURE: 8 mbar @ 20°C

VAPOUR DENSITY: Not available

RELATIVE DENSITY: 0.98 to 1.03 g.cm⁻³

SOLUBILITY(S): Not available.

PARTITION COEFFICIENT – N-OCTANOL/WATER: Not available.

AUTOIGNITION TEMPERATURE: 220°C.

DECOMPOSITION TEMPERATURE: 365°C.

VISCOSITY: Not available.

10. STABILITY AND RESPONSIVENESS

REACTIVITY: None known, based on information available.

CHEMICAL STABILITY: Stable product under normal conditions of use.

POSSIBILITY OF DANGEROUS REACTIONS: Not available.

CONDITIONS TO AVOID: Keep away from open flames, hot surfaces and sources of ignition. Exposure to light. Incompatible products. Exposure to moist air or water.

INCOMPATIBLE MATERIALS: Acids, Strong oxidizing agents, Acid chlorides, Carbon dioxide (CO₂), Bases, copper.

BREAKDOWN OF HAZARDOUS PRODUCTS: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide, Toxic fumes.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Data for Industrial Secret 01.

LD50 Oral = 683 mg/kg (Rat)

MATERIAL SAFETY DATA SHEET MSDS



FULLTEC TOP MIX

MSDS PRO FER
Revision 03
22/08/2024
Page 5 Of 6

LD50 Dermal = 1330 – 2660 mg/kg (Rat)

LC50 Inhalation > 5.5 mg/L (Rat, 4 h)

CORROSION/SKIN IRRITATION: Alkaline product.

SERIOUS EYE INJURY/EYE IRRITATION: Not available.

RESPIRATORY OR SKIN SENSITIZATION: Not available.

GERM CELL MUTAGENICITY: Not available.

CARCINOGENICITY: Not available.

SPECIFIC TOXICITY IN TARGET ORGANS (SINGLE EXPOSURE): Not available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Not available.

ASPIRATION HAZARD: Not available.

12. ECOLOGICAL INFORMATION

ECECOTOXICITY: Data for Industrial Secret 01.

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Contains a substance which is: Harmful to aquatic organisms.

EC50 (Desmodesmus subspicatus) = 57.5 mg/L, 96 h.

EC50 (Desmodesmus subspicatus) = 56.2 mg/L, 72 h.

PERSISTENCE AND DEGRADABILITY: Unlikely.

BIOACCUMULATIVE POTENTIAL: Not available.

LAND MOBILITY: Not available.

OTHER SIDE EFFECTS: Not available.

13. FINAL DISPOSITION CONSIDERATIONS

RECOMMENDED METHODS FOR FINAL DISPOSAL: Try to reuse the product. Properly collect and store spilled product for later reuse or final disposal. Check with your local environmental control agency. Wash the used container with water and use the water in the application of the product. Packaging can be recycled.

14. TRANSPORTATION INFORMATION

DOT

UN-No UN2734

Proper Shipping Name AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.

Technical Name Industrial secret.

Hazard Class 8

Subsidiary Hazard Class 3

Packing Group II

IMDG/IMO

UN-No UN2734

Proper Shipping Name AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.

Technical Name Industrial secret.

Hazard Class 8

Subsidiary Hazard Class 3

Rodovia PR 317, 8065 - Zona 47 Maringá-PR Cep: 87.065-005

+55 44 3046.2600



MATERIAL SAFETY DATA SHEET MSDS



FULLTEC TOP MIX

MSDS PRO FER
Revision 03
22/08/2024
Page 6 Of 6

Packing Group II

15. REGULATORY INFORMATION

SPECIFIC SAFETY, HEALTH AND ENVIRONMENTAL STANDARDS FOR THE CHEMICAL PRODUCT: Not available.

16. OTHER INFORMATION

IMPORTANT INFORMATION, BUT NOT SPECIFICALLY DESCRIBED IN THE PREVIOUS SECTIONS: The information contained herein is merely indicative and is provided in good faith, without incurring express or implied liability. It is up to you to use it in accordance with applicable federal, state, and local laws and regulations. If you need clarification or additional information, please consult Spraytec or its representatives.

This document was prepared in accordance with the criteria of NBR 14725. V4.

REFERENCES:

- IFA – Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung. GESTIS Substance Database. Available in: <https://gestis-database.dguv.de/>. Accessed on: June 10, 2022.

SUBTITLES AND ABBREVIATIONS:

- ABNT: Brazilian Association of Technical Standards
- CAS: Chemical Abstract Service
- LD50: Lethal dose 50%
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- NBR: Brazilian Regulatory Standard
- pH: Hydrogen Potential
- RENACIAT: National Network of Toxicological Information and Assistance Centres