

SAFETY DATA SHEET

Rasa

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTITY: Spreader, Activator, Translocator

COMMON NAME: Rasa

CHEMICAL DESCRIPTION: A low-viscosity gel containing Modified Trimethyl Siloxane, Chelated Nano Copper, Thickeners, and Solvents.

RECOMMENDED USE: Surfactant and Spreader for agrochemical Products.

PRODUCT RESTRICTIONS: See product label for any restrictions on the use of this product.

VERSION NO. 1.0

MANUFACTURER:

Manufacturer/ Supplier Maharasa Agritech Pvt. Ltd.

Address: 401, Samraat Qubism, Pipeline Road, Aandvali, Nagapur Road, Nashik - 422013

Contact No: +91 7350001748
+917350010376

Email: info@maharasa.com



2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause serious eye irritation. May cause skin irritation after prolonged exposure.

POTENTIAL HEALTH EFFECTS

Eyes: May cause eye irritation on direct contact.

Skin: Prolonged exposure may cause skin irritation.

Inhalation: May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). May cause respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown blood. May cause nausea and possible vomiting.

Ingestion: May be harmful if swallowed. May cause irritation of the digestive tract. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. May cause effects similar to those for inhalation exposure. Effects may be delayed 2 to 4 hours. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood.

Chronic Health Effects: Prolonged or repeated skin contact may cause dermatitis. Repeated exposure may cause allergic respiratory reaction (asthma). There is a danger of cumulative effects

LABEL ELEMENTS

Hazard Symbol:



Signal Word: **WARNING**
Hazard Statement: Causes serious eye irritation.
% Of Product Unknown Toxicity: 0.00%

PRECAUTIONARY STATEMENTS -

Prevention: Wash hands thoroughly after handling. Wear eye and face protection. Do not breathe vapors.

Response: If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Get medical attention if you feel unwell.

Storage: See Section 7 for storage information.

Disposal: Dispose of contents/container in accordance local regulatory authority

3. COMPOSITION / INFORMATION ON INGREDIENTS

Contents	% w/w	CAS No
Modified Polyether Trisiloxane	18.00	Proprietary Preparation
Chelated Nano Copper	200 ppm	7758-99-8
Thickeners	0.3	Mixture No Specific CAS No
Solvents	81.40	Mixture No Specific CAS No

4. FIRST AID MEASURES

If In Eyes:

Do not rub eyes. Flush eyes immediately and thoroughly with running water for 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. If irritation persists, get medical attention.

If On Skin Or Clothing:

Remove contaminated clothing and wash before re-using. Wash skin with soap and water. Get medical attention if irritation persists.

If Swallowed:

Call a poison control center or doctor immediately for treatment advice. Rinse mouth. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled:

Move person to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Notes To Physician:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Patient treatment should be based on sound judgment of the physician and the individual reactions of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures:

Self-contained breathing apparatus and full protective gear. Dike area to prevent run off and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors keep upwind. Use water spray to cool unopened containers.

Hazardous Combustion Products:

Heating to extreme temperatures may causes release of CO₂.

Unusual Fire And Explosion Hazards:

Product is not explosive. Heating of closed or sealed containers may cause a violent rupture of the container due to thermal expansion of compressed gases.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during cleanup. For personal protection see Section 8. Avoid contact with skin and eyes. Ensure adequate ventilation.

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods And Materials For Containment And Clean Up

Small Spill:

Stop leak if without risk. Move containers from spill area. Confine and absorb small releases with sand, earth, or other inert material. Hovel up absorbed material and place in drums for disposal as a chemical waste. Clean surface thoroughly for residual contamination. For waste disposal see Section 13.

Large Spill:

Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas by diking area with sand or earth. Recover as much of the spilled product as possible using portable pump and hoses. Use as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above).

7. HANDLING AND STORAGE

Handling :

Avoid contact with eyes/skin. Use only outdoors or in a well ventilated area. Avoid prolonged or repeated breathing of vapors/spray. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage :

Store in a cool, dry area away from children, combustibles, feed, and food products.
Keep out of direct sunlight.
Store away from incompatible materials.
Do not re-use empty containers.
Protect from exposure to fire conditions.
Keep out of reach of children

Other Precautions:

Consult Federal, state and local laws and regulations pertaining to storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection Equipment :

Eye/Face Protection :

Wear goggles or safety glasses. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection :

Chemical resistant gloves are recommended. Wear appropriate clothing to prevent repeated or prolonged skin exposure.

Respiratory Protection:

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Thermal Hazards:

Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations :

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Never eat, drink, or use tobacco in work areas. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / State	Transparent Gel
Color	Colorless
Odour	Characteristic
Odour Threshold	Not determined
pH 10% at 25 °C	6.5-7.0
Physical State	Gel
Solubility in water	Completely Soluble
Vapour Pressure	Not determined
Flash Point	32.0-35.0 °C
Boiling Point / Distillation	85-90 °C
Melting / Freezing point	-5 to 3°C
Flammability	Inflammable
Auto Ignition temperature	Not applicable
Density	1.02-1.03 g/ml
Fat Solubility	Not applicable
Vapour Density	Not applicable
Evaporation Rate	Not applicable
Decomposition point	420-480°C
Other information	Not applicable
Partition Coefficient (n-octanol/water)	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transportation.
Chemical Stability:	The product is stable under normal conditions of temperature and pressure.
Possibility Of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions To Avoid:	Excessive heat. Contact with incompatible materials
Incompatible Materials:	Reactive with oxidizing agents, acids, alkalis
Hazardous Decomposition Products	Risk of ignition or formation of inflammable gases or vapors with: Fluorine iodine Violent reactions possible with: Strong oxidizing agents iron/iron-containing compounds

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY -

Eye Effects	Risk of serious eye damage
Skin Effects:	LDLo rabbit: 20,000 mg/kg; literature value
Acute Inhalation Effects:	LC50 rat: 66,000 mg/l; literature value; 4 h
Specific Target Organ Toxicity:	None known
Acute Inhalation Effects:	Based on component data, product is not considered to be acutely toxic via inhalation.

CHRONIC TOXICITY -

Acute Oral Effects:	LD50 Oral (Rat) - > 5000 mg/kg (Modified Polyether Trisiloxane)
----------------------------	---

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA -

Fish Acute and Prolonged Toxicity: In high concentration it harms fish and plankton; LC50 (fish, 96 hours) – 15.3 mg/L (Pimephales promelas)

Fish Acute and Prolonged Toxicity: Threshold for deleterious effects in small crustaceans upwards of 7.800 mg/l; EC50 (Daphnia, 48 hours)

Toxicity to algae :

Toxic threshold concentration: Pseudomonas putida upwards of 6.500mg/l.

Persistence And Degradability:

This product is readily biodegradable

Bioaccumulative Potential:

This product is not expected to bio accumulate through the food chains in the environment.

Mobility In Soil:

This product is water soluble and may disperse in soil.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Methods of Disposal :

Dispose of in accordance with applicable Federal, state, and local laws and regulations. Do not allow this material to drain into sewers, drains, or waterways.

Ensure all product has been emptied from containers. Dispose of emptied container in accordance with applicable Federal, state, and local laws and regulations

RCRA Characteristics:

It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Methods of Disposal :

Dispose of in accordance with applicable Federal, state, and local laws and regulations. Do not allow this material to drain into sewers, drains, or waterways.

Ensure all product has been emptied from containers. Dispose of emptied container in accordance with applicable Federal, state, and local laws and regulations

RCRA Characteristics:

It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

14. TRANSPORTATION INFORMATION

Regulation	Not regulated by DOT
Proper Shipping Name	Plant Nutrient supplement powder
DOT Label	Not applicable
US DOT	No information available
IMO	No information available
IATA	No information available
RID/ADR	No information available
Canadian TDG	No information available

15. REGULATORY INFORMATION

Nfpa Hazard Rating:

0	Least
1	Slight
2	Moderate
3	High
4	Severe

1	Health
1	Flammability
2	Reactivity

Hazard Categories:

Immediate Hazard	No
Delayed Hazard	Moderate
Fire Hazard	Moderate

Pressure Hazard	No
Reactivity Hazard	Moderate

OTHER REGULATIONS :

Observe Work Restrictions Regarding Maternity Protection
In Accordance

H-Statement :

H139

H302 : Harmful If Swallowed.

H302 + H312 +Harmful If Swallowed, In Contact With
Skin Or If Inhaled.

H332

H312 Harmful In Contact With Skin

H332 Harmful If Inhaled

H373 May Cause Damage To Organs Through Prolonged
Or Repeated Exposure.

P-Statement :

P102: Keep Out Of Reach Of Children
P261: Avoid Breathing Dust/Mist/Spray
P281: Use Personal Protective Equipment As Required
P332/313: If Skin Irritation Occurs, Get Medical Attention

R- Phrases :

None

S-Phrases :

S2: Keep out of reach of Children
S23: Do not breathe dust/mist/spray
S36/37/39: Wear Suitable protective clothing, gloves and eye and face protection

16. OTHER INFORMATION

Issue Date: 15 September 2023

Revision Date: New

Version No: 01

NOTICE TO READERS

Disclaimer And Limitations Of Liability:

The information presented herein is based on data obtained from manufacturers and /or recognized technical sources. While the information is believed to be accurate, we make no representations to its accuracy or sufficiency. It does not imply the acceptance of any legal liability or responsibility whatsoever by the company for the consequences of its use or misuse in any particular circumstances

No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this SDS.