

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Salicide
Product Code: 7003
Manufacturer information:
Company Name: Microbial Biological Fertilizer International, LLC
Address: 4006 South, 40th Street, St. Joseph,
Missouri, 64503
Telephone: +1 (816) 236 4772
Email: steven@mbfiusa.com
Emergency Phone Number: +1 (816) 752 0306

2. Hazards Identification

Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Label elements

Pictogram and signal words:



Signal word:

Danger

Hazard statements:

H290: May be corrosive to metals.
H318: Causes serious eye damage.
H315: Causes skin irritation.
H332: Harmful if inhaled.

Precautionary statements:

P234: Keep only in original container.
P261: Avoid breathing mist.
P271: Use only outdoors or in a well-ventilated area.
P264+P265+P280: Wash hands thoroughly after handling. Do not touch eyes. Wear protective gloves, protective clothing, eye protection and face protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: wash with plenty of water.
P362+P364: Take off contaminated clothing and wash it before reuse.

3. Composition / Information on Ingredients

Substances:

N/A

Mixture:

Name	CAS No.	Weight (%)	Classification
Diethylene Triamine Penta (Methylene Phosphonic Acid)	15827-60-8	37.00%	Met. Corr. 1: Skin Irrit. 2: Eye Dam. 1, Acute Tox. 3
Amino Tris (Methylene Phosphonic Acid)	6419-19-8	11.7%	Met. Corr. 1: Skin Irrit. 2: Eye Irrit. 2

4. First Aid Measures

Inhalation:

Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Call a poison control center or doctor for treatment advice.

Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Call a poison control center or doctor for treatment advice.

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion:

Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Symptoms: May cause allergic skin reaction. May cause redness and tearing of eyes.

Indication of any immediate medical attention and special treatment needed:

Note to physicians: Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media:

Dry chemical, CO₂, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog, or regular foam.

Unsuitable extinguishing media:

None.

Specific hazards arising from the chemical:

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products:

Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Personal precautions:	Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.
For emergency responders:	Use personal protection recommended in Section 8. Ventilate the area.
Environmental precautions:	Prevent entry into waterways, sewers, basements, or confined areas.

Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Prevent spillage or further leakage if it is safe to do so. Contain spillage with sand bags or by other means. Absorb with earth, sand or absorbent material. Dig up heavily contaminated soil. Flush with water to remove any residues. Keep product and wash water out of drains, sewers, ditches and waterways.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling:	Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Do not breathe mist/spray.
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Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from food, drink, and animal feeding stuffs. Keep in properly labeled containers. Keep cool. Protect from sunlight.
Packaging materials:	Do not reuse container.

8. Exposure Controls/ Personal Protection

Control parameters

The usual precautionary measures for handling chemicals should be observed. Provide adequate ventilation.

Appropriate engineering controls

Engineering controls ensure adequate ventilation, especially in confined areas. Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Tight sealing safety goggles.
Skin and body protection:	Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or boots.
Respiratory protection:	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations:	When using do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Keep away from food, drink, and animal feeding stuffs. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical state:	Liquid
Colour:	Brownish
Odour:	Very slight
pH:	Not applicable
Moisture %:	Not applicable
Density:	1.5 g/ml
Solubility (g/L, 25°C):	Not applicable
Solubility in organic solvents:	Soluble
Partition coefficient:	Not applicable
Viscosity:	232.6 cp
Boiling point:	Not applicable
Corrosiveness:	Corrosive
Flash point:	Not combustible
Explosive properties:	Not combustible
Auto-ignition temp:	Not applicable

10. Stability and Reactivity

Hazardous decomposition products:	None identified.
Materials to avoid:	Oxidants and acid may cause degradation.
Conditions to avoid:	Avoid dust formation, very low or high temperatures and direct sunlight.

11. Toxicological Information

LD₅₀:	DTMPA: Acute Oral LD50 (rat): > 2000 mg/kg Acute Dermal LD50 (rat): > 2000 mg/kg Eye Irritation (rabbit): Damaging to eyes Cat 1 Skin Irritation (rabbit): Irritating to skin Cat 2 Inhalation LC50 (rat): > no data Skin Sensitization: Irritating to skin Cat 2 Specific Target Organ Toxicity Single Exposure (Respiratory): Cat 3
	ATMPA Acute Oral LD50 (rat): > 2000 mg/kg Acute Dermal LD50 (rat): > 2000 mg/kg Eye Irritation (rabbit): Irritating to eyes Cat 2 Skin Irritation (rabbit): not classified Inhalation LC50 (rat): > no data Skin Sensitization: not classified
	Mixture: Acute Oral LD50 (rat): 7748,5 mg/kg (Calculated) Acute Dermal LD50 (rat): 10 111,3 mg/kg (Calculated) Eye Irritation (rabbit): Damaging to eyes Cat 1 Skin Irritation (rabbit): Irritating to skin Cat 2 Inhalation LC50 (rat): > no data Skin Sensitization: Irritating to skin Cat 2
Local effects	N/A
Chronic toxicity:	Non-carcinogenic, non-teratogenic, non-mutagenic or reproductive, not harmful in laboratory animals.

12. Ecological Information

DTPMPA

Rainbow Trout (*Oncrhynchus mykiss*)

LC₅₀ (96h): 160 mg/L

Water Flea (*Daphnia* sp.)

LC₅₀ (48h): 297.0 mg/L

ATMPA

Rainbow Trout (*Oncrhynchus mykiss*)

LC₅₀ (96h): 180 mg/L

Water Flea (*Daphnia* sp.)

LC₅₀ (48h): 242.2 mg/L

Mobility: No information available.

13. Disposal Considerations

Triple rinse the empty container as follows: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume of fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple-rinsed container and dispose of it via an approved collector or recycler. Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.

14. Transport Information

UN number:	1760
UN Proper shipping name:	Corrosive Liquids N.O.S.
Transport hazard class(es):	8
Packing Group:	III

15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for the mixture

Authorizations: Registered per state.

Restrictions on use: Not relevant.

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this SDS

16. Other Information

The purpose of the above information is to describe the product only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

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