



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet Ammonium salt of Glyphosate 71% SG

### 1. IDENTIFICATION OF COMPANY & PRODUCT

**Product Name** : Ammonium salt of Glyphosate 71% SG  
**Chemical Name** : N-(phosphonomethyl) glycine  
**Uses** : Herbicide

**Molecular Formula** : C<sub>3</sub>H<sub>8</sub>NO<sub>5</sub>P  
**Manufacturer** : SHREEJI PESTICIDES PVT LTD.  
**Address** : Plot No. 69/P, Village - Manjusar, Tal. Savli, Dist. Vadodara - 391775  
Gujarat, India :  
**Tele Fax Number** 91 2667 264701

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/W)%
Ammonium salt of glyphosate	40465-66-5	71%
Surfactants	-	8%
Ammonium sulphate	7783-20-2	21%

### 3. HEALTH HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

**PHYSICAL APPEARANCE** : White Solid granules

**IMMEDIATE CONCERNES** : Causes Eye Irritation. Avoid Contact With Eyes Or Clothing. Wash Thoroughly With Soap And Water After Handling. Keep Out Of Reach of Children

### 4. FIRST AID MEASURES

**EYES** : Immediately flush with plenty of water. Continue for at least 15 minutes. If easy to do, remove contact lenses. If there are persistent symptoms, obtain medical advice.

**SKIN** : Wash affected skin with plenty of water. Wash clothes before re-use. Take off contaminated clothing, wristwatch, and jewelry.

**INGESTION** : Immediately offer water to drink. Do NOT induce vomiting unless directed by



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet Ammonium salt of Glyphosate 71% SG

**INHALATION** : medical personnel. If symptoms occur, get medical attention.  
: Remove to fresh air.  
**ADVICE TO DOCTORS** : This product is not an inhibitor of cholinesterase.  
**ANTIDOTE** : Treatment with atropine and oximes is not indicated.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT** : Does not flash.  
**EXTINGUISHING MEDIA:** Recommended: Water, dry chemical, carbon dioxide (CO<sub>2</sub>), foam  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None  
**HAZARDOUS PRODUCTS OF COMBUSTION** : Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), phosphorus oxides (P<sub>x</sub>O<sub>y</sub>)  
**FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS** : Use personal protection recommended in Section 8.  
**SMALL QUANTITIES** : Low environmental hazard.  
**LARGE QUANTITIES** : Minimize spread. Keep out of drains, sewers, ditches and water ways.

#### METHODS FOR CLEANING UP:

**SMALL QUANTITIES** : Flush spill area with water.  
**LARGE QUANTITIES** : Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Refer to Section 7 for types of containers. Flush residues with small quantities of water. Minimize use of water to prevent environmental contamination.

Refer to Section 13 for disposal of spilled material.

### 7. HANDLING AND STORAGE

**HANDLING** : Good industrial practice in housekeeping and personal hygiene should be followed. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet

### Ammonium salt of Glyphosate 71% SG

hands thoroughly after handling or contact. Thoroughly clean equipment after use. Emptied containers retain vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. FOLLOW LABELED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

**STORAGE** : Compatible materials for storage: stainless steel, aluminum, plastic, fiberglass, glass lining. Incompatible materials for storage: galvanized steel, unlined mild steel (See Section 10). Keep out of reach of children. Keep away from food, drink and animal feed. Keep only in the original container. Partial crystallization may occur on prolonged storage below the minimum storage temperature. If froze, place in warm room and shake frequently to put back into solution. Minimum shelf life: 5 years.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS** : Have eye wash facilities immediately available at locations where eye contact can occur.

**EYES PROTECTION** : If there is potential for contact, wear chemical goggles.

**SKIN PROTECTION** : If repeated or prolonged contact, wear chemical resistant gloves.

**RESPIRATORY PROTECTION** : No special requirement when used as recommended.  
When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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 specifications for the product.

**Appearance** : Light yellow granules  
**Relative density** : 0.6 g/cm<sup>3</sup> (20 °C)  
**Solubility in water** : Soluble in water  
**Flash point** : Not applicable



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet

### Ammonium salt of Glyphosate 71% SG

pH : 3.0 – 5.0 (1% Solution)

#### 10. STABILITY AND REACTIVITY

**STABLE** : Stable under normal conditions of handling and storage.

#### HAZARDOUS

**DECOMPOSITION** : Thermal decomposition: No data. Hazardous products of combustion: see Section 5.

#### MATERIALS TO

**AVOID/REACTIVITY** : Reacts with bases to liberate heat. Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

#### HAZARDOUS

**POLYMERIZATION** : Does not occur.

#### 11. TOXICOLOGICAL INFORMATION

**LD50 oral rat:** > 3000 mg/kg in rats

**LD50 dermal rat:** > 4000 mg/kg

**LC50 inhalation rat:** > 2 mg/l

**Acute skin irritation:** Not irritant to skin.

**Acute eye irritation:** Moderately irritating to eyes (rabbit).

**Carcinogenicity:** Animal studies did not detect any carcinogenic effects.

**Reproductivity:** Reproductive changes in test animals only occur at very high doses. It is unlikely that glyphosate would produce effects in humans.

#### 12. ECOLOGICAL INFORMATION

LC50 fish: 4.2 mg/l

EC50 Daphnia: 3.8 mg/l

EC50 algae: 1.8-3.6 mg/l

Oral toxicity bees: 276.7 µg a.s. /bee

Dermal toxicity bees: > 200 µg a.s. /bee

**Degradability:** Glyphosate is moderately persistent in soil, with estimated average half-life of 47 days. Microbes are primarily responsible for breakdown. Glyphosate is strongly adsorbed to suspended organic and mineral matter in water, and broken down primarily by microbes. Half-life ranges from 12 days to 10



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet

### Ammonium salt of Glyphosate 71% SG

weeks.

**Mobility:** The product is practically immobile. It is strongly adsorbed to most soils. It does not leach appreciably, and has low potential for runoff.

**Accumulation:** The product shows little or no tendency to bio-accumulate and poses no long term threat to wildlife.

**Other Beneficial organisms:** No effect on carabid beetles. Harmless to slightly harmful to green lacewing, parasite species, mites / spiders and insects. Moderately harmful to Bembidion lampros.

#### 13. DISPOSAL CONSIDERATIONS

**Product** : Dispose of as hazardous industrial waste. Recycle if appropriate facilities/equipment available. Burn in special, controlled high temperature incinerator. Keep out of drains, sewers, ditches and water ways. Follow all local/regional/national regulations.

**Container** : Triple rinse empty containers. Pour rinse water into spray tank. Store for collection by approved waste disposal service. Dispose of as hazardous industrial waste. Do NOT re-use containers. Follow all local/regional/national regulations.

#### 14. TRANSPORT INFORMATION

**UN NUMBER: 3077**

**Road Transport ADR/IRD:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, solid, N.O.S. (herbicide - glyphosate)

**Air Transport ICAO/IATA:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, solid, N.O.S. (herbicide - glyphosate)

**Maritime Transport IMDG/IMO:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, solid, N.O.S. (herbicide - glyphosate)

#### 15. REGULATORY INFORMATION



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet Ammonium salt of Glyphosate 71% SG

**TSCA Inventory** : All components are on the US EPA's TSCA Inventory  
**SARA Title III Rules** : Section 311/312 Hazard Categories  
Immediate  
Section 302 Extremely Hazardous Substances Not applicable.  
Section 313 Toxic Chemical(s) Not applicable.

**CERCLA Reportable quantity**  
Not applicable.

### 16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data. For more information refer to product label. Please consult Repair if further information is needed. Follow all local/regional/national regulations.

**DISCLAIMER** : The information presented herein is based on available data from reliable sources and is correct to the best of knowledge. CLSL makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.