

**Innovis Crop Protection Ltd.**

Glufosinate-Ammonium 280 g/l SN

**1. IDENTIFICATION OF THE SUBSTANCE**

**Product name: Innovis syntheSIZE 280HE PCP#35033**

Innovis Crop Protection Ltd.

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**2. COMPOSITION/INFORMATION ON INGREDIENTS Chemical**

**characterization:** phosphinic herbicide

Ingredient Name	CAS Number	Concentration (g/l)
Glufosinate-Ammonium	77182-82-2	280
Inert Ingredients	-	To 1 liter

**3. HAZARD IDENTIFICATION**

**Risk advice to man and the environment**

No hazards to be specially mentioned.

**4. FIRST AID MEASURES**

**Eyes:** Flush with plenty of water. Get medical attention if irritation persists.

**Skin:** Remove contaminated clothing. Wash skin immediately with plenty of soap and water. Get medical attention if irritation occurs.

**Ingestion:** Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Get medical attention immediately.

**Inhalation:** Remove individual to fresh air. Get medical attention if breathing difficulty develops.

**Special notes to a physician:** Endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration. Respiratory, Cardiac and Central Nervous Systems should be monitored with particular regard to ECG, electrolyte balance (especially for potassium) and signs of increased intracranial pressure. In the event of a large exposure, dialysis and/or hemoperfusion should be conducted as soon as possible to eliminate the compound from the body. In the event of convulsions, administer Phenobarbital or diazepam. There is no specific antidote. Glufosinate- ammonium does not inhibit cholinesterase; thus atropine and 2-PAM are contraindicated. Recovery is normally spontaneous, usually within 48h.

**5. FIRE-FIGHTING MEASURES**

**Small fires:** dry chemical, carbon dioxide.

**Large fires:** Foam or water. Move containers from fire area if without risk. Cool containers with water from maximum distance.

**Special equipment for the protection of firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

**Specific methods of fire-fighting:** Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use proper protective equipment to minimize personal exposure.

**Environmental precautions:** Take all necessary action to prevent and to remedy the effects of the spill.

**Small spill:** absorb with an inert absorbent material such as granular clay, saw dust or pet litter. Sweep up carefully while avoiding the formation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

**Large spill:** Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. Dike far ahead of liquid spill for later disposal. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs.

## 7. HANDLING AND STORAGE

**Handling:** Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Specific safe handling advice:** Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**Precautions:** May be fatal if absorbed through the skin. Harmful if swallowed or inhaled. A moderate eye irritant. A mild skin irritant. Do not get in eyes, on skin, or on clothing. Avoid

breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storing procedures:** Do not use or store near heat or open flame. Do not contaminate water, food, or feed by storage or disposal. Store in original container. Store product in a secure storage area.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Controls:** Control airborne concentration below the exposure guidelines. Handle only in ventilated area.

**Eye/face protection:** Goggles or face shield.

**Skin protection:** Impermeable rubber gloves (such as neoprene or PVC).

**Respiratory protection:** In case of spill, leak, or emergency, use approved chemical cartridge-type respirator.

**Other/general protection:** Hat, impermeable pants and shirts, and waterproof boots.

**For applicators and handlers (agricultural uses):** Long-sleeved shirts and long pants, chemical-resistant gloves, shoes plus socks and protective eyewear.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Blue homogeneous liquid

**Odor:** Slight alcohol odor.

**Physical state:** Liquid.

**pH:** 5.0-7.5.

**Density:** 1.126g/ml

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute studies

**Oral LD<sub>50</sub> (rat):** >5000 mg/kg.

**Dermal LD<sub>50</sub> (rat):** > 2000 mg/kg.

**Skin irritation(rabbit):** no skin irritating.

**Eye irritation (rabbit):** no eye irritating.

**Sensitization(Guinea pig):** not a skin sensitizer.

## 12. ECOLOGICAL INFORMATION (based on the active ingredient)

**Acute and prolonged toxicity to fish:** LC<sub>50</sub>: 79mg/l (96h) in bluegill sunfish, 42mg/l (96h) in rainbow trout, 80mg/l (96h) in carp, 560-1000mg/l in freshwater fish & invertebrates.

**Acute toxicity to aquatic invertebrates:** EC<sub>50</sub>/LC<sub>50</sub>: >100mg/l (48h) in daphnia, 7.2-125mg/l in marine and estuarine organisms.

**Chronic toxicity to aquatic invertebrates:** NOEC: 32mg/l in freshwater invertebrates.

**Toxicity other non mammal terr. Species:** LD<sub>50</sub>/LC<sub>50</sub>: acute oral >2000mg/kg in avian, acute dietary >5000ppm in avian, reproduction 400ppm in avian, contact >600 µg/bee in honeybee.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Empty containers should be triple rinsed (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by Authorities, by burning. If burned, stay out of smoke.

### 14. TRANSPORT INFORMATION

<b>ADNR</b>	Not dangerous goods
<b>ADR</b>	Not dangerous goods
<b>GGVE</b>	Not dangerous goods
<b>GGVS</b>	Not dangerous goods
<b>IATA C</b>	Not dangerous goods
<b>IATA P</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods

### 15. REGULATORY INFORMATION

#### EU REGULATORY INFORMATION

EU Classification: None

European Inventory of Existing Commercial Substances (EINECS)

Glufosinate-Ammonium 77182-82-2

### 16. OTHER INFORMATION

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instruction.