

## Material Safety Data Sheet

This information is based upon technical information believed to be reliable.  
It is subject to revision as additional knowledge and experience as gained.

### ERADICATOR 75.7% WDG

### Glyphosate ammonium Salt 75.7% WG

Revised: June 1<sup>st</sup>, 2020

#### 1. Identification of the Substance & Company Supplying Product

**Recommended use:** Herbicide

**ICAMA Approval No.:** PD20084065 (ICAMA-Institute for the Control of Agrochemicals  
Ministry of the Agriculture People's Republic of China)

**Company Identification:** Zhejiang Xinan Chemical Industrial Group Co., Ltd.

**Add:** Xinanjiang, Jiande, Zhejiang, 311600, China

**Tel:** +86-571-87220468

**Fax:** +86-571-87220464

**Emergency Call:** +86-571-64723891

#### 2. Composition/Information on Ingredients

Components

Material	CAS Number	%
Glyphosate	40465-66-5	75.7
N-(phosphonomethyl)glycine		
in the form of its ammonium salt*		
Inert Ingredients		24.3

\* Equivalent to 68.8% of the Glyphosate acid

#### 3. Hazard Identification

Emergency Overview

**Appearance and Odor:** Uniformity flowing granule, Odorless.

**Warning Statements:** Keep out of the reach of children

**Warning:**

CAUSE SUBSTANTIAL BUT TEMPORARY EYE INJURY.

HARMFUL IF SWALLOWED OR INHALED

Do not get in eyes or on clothing. Avoid breathing vapor or mist.

**Potential Health Effects (on toxicity studies):**

**Eye:** May cause pain, redness and tearing.

**Skin:** No more than slightly toxic and no more than slightly irritating

**Ingestion:** No more than slightly toxic, no significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and dishea. Oral ingestion of large quantities of one similar product has been reported to result in hypotension and lung edema.

**Inhalation:** No more than slightly toxic if inhaled.

---

**4. First Aid Measures**

---

**First Aid****Inhalation**

If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination. The patient should be kept under observation. Obtain medical attention if symptoms persist.

**Skin Contact**

Remove contaminated clothing and shoes. Wash skin gently and thoroughly with cold water and non- abrasive soap. Obtain medical attention if irritation persists.

**Eye Contact**

Flush eyes with clean water for 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Obtain medical attention.

**Ingestion**

Have victim rinse mouth thoroughly with water. Obtain medical advice, showing container and label, if patient feels unwell.

**Advice to physician:** There is no specific antidote available. Treat symptomatically and supportively. Remove by gastric lavage and catharsis, but not if victim is unconscious. Give oxygen if respiration is depressed.

---

**5. Fire Fighting Measures**

---

**Flammable properties**

Flash point: > 200 °F (>93°C)

**Extinguishing media:** Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Special Fire Fighting Procedures:** Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must not come into contact with the product and must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site. Wear self-contained breathing apparatus. Wear full protective equipment.

**Specific hazards:** This product may emit toxic fumes when burned, including Carbon monoxide (CO), phosphorous oxides (P x O y ) and nitrogen oxides (NO x ).

---

## 6. Accidental Release Measures

---

**Personal Precautions:** Avoid contact with eyes and skin. Do not breathe in spray or fumes. Ventilate area of spill or leak, especially in contained areas.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Emergency procedures:** Alert firefighting personnel, evacuate unprotected personnel and animals.

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be toxic to aquatic organisms with long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

**Methods and Materials for Containment:** Contain spilled product. Methods and Materials for Clean-up: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air.

---

## 7. Handling and Storage

---

**Handling (Personnel):** Precautions for safe handling: Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. In the case of contact with the product refer to First Aid Measures –Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

**Storage:** Conditions for safe storage: Keep out of reach of unauthorised persons, children

and animals. Store in its original labelled container tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excessive heat. Avoid cross contamination with other pesticides and fertilisers.

---

## 8. Exposure Controls/Personal Protection

---

**Permissible concentration:** No occupational exposure limits has been determined for the significant ingredients in this product.

**Engineering Controls:** It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

### Personal protective equipment

**Respiratory Protection:** Wear an organic cartridge respirator suitable for protection from mists/ vapours of pesticides if inhalation is likely to occur.

**Hand Protection:** Employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves to prevent contact with this mixture.

**Eye Protection:** Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

**Skin and Body Protection:** The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture.

---

## 9. Physical and Chemical Properties

---

**Appearance:** Homogeneous free flowing granules

**Color/Form/Odor:** Slight Yellow/Granule/Odorless

**pH:** 3.0-8.0

**Melting point:** Not available.

**Freezing Point:** Not available

**Boiling Point:** Not available.

**Flash Point:** Not applicable.

**Flammability:** Not applicable.

**Upper/lower explosion limits:** Not available.

**Vapour Pressure (mm Hg):** Not applicable.

**Relative Vapour Density:** Not applicable.

**Bulk density:** 0.6 g/cm<sup>3</sup>

**Solubility:** Soluble in water.

**n-octanol/water partition coefficient:** Not available.

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not applicable

---

## 10. Stability and Reactivity

---

**Chemical stability:** The product is stable for 2 years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.

**Reactivity:** None known.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Product is relatively stable in neutral, weakly acidic and weakly alkaline media, but reacts strongly (and possibly violently) with strong alkalis. Avoid strong oxidizing agents. Mixing with other products may reduce the activity of Glyphosate. Incompatible with galvanized steel and unlined mild steel materials for storage.

**Hazardous Decomposition Products:** Toxic oxides of carbon, nitrogen and phosphorus are released when the product decomposes on heating.

---

## 11. Toxicological Information

---

**Acute oral toxicity:** LD50 greater than 2000 mg/kg bodyweight for rats

**Acute dermal toxicity:** LD50: greater than 2000 mg/kg bodyweight for rats

**Inhalation toxicity:** LC50: greater than 0.85 mg/L for rats 4h.

**Skin irritation:** Non-Irritant to rabbits skin.

**Eye irritation:** Moderate-Irritant to rabbits eyes.

**Skin or dermal sensitization:** Not a skin or dermal sensitizer (Guinea Pig).

**Mutagenicity:** Not mutagenic

**Carcinogenicity:** EPA: Group D, EU : Not classified

**Teratogenicity:** Not teratogenic in animal experiments

**Neurotoxicity:** Not neurotoxic

---

## 12. Ecological Information

---

**Birds:** Japanese quail: acute oral LD50 (14d) > 2000 mg/kg;

**Fish:** Danio rerio LC50 (96h) > 100 mg/L;

**Daphnia magna:** EC50 (48hours) > 100 mg/L;

**Algae:** Pseudokichneriella subcapitata ErC50 (72hours) = 60.10mg/L

**Bees:** Acute Oral LD50 (48hours) > 100 µg/bee; Acute Dermal LD50 (48 hours) = 27.03 µg/bee.

**Earthworms:** LC50(14d) > 1000 mg/kg soil;

**Soil micro-organisms:** Nitrogen transformation: have no long-term effect; Carbon transformation: have no long-term effect.

**Persistence – degradability:** Moderately persistent in soil

**Mobility:** Low mobility. Adsorbs strongly to soil.

**Bioaccumulative potential:** Low bioaccumulation potential (Log Pow <3).

---

### 13. Disposal Considerations

---

**Waste:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated

waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Container:** Emptied containers retain dust and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank or where it is used. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

---

### 14. Transportation Information

---

UN Number: 3077

**Road Transport ADR/IRD:**

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S (Glyphosate)

**Maritime Transport IMDG/IMO:**

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S (Glyphosate)

Marine Pollutant (Y/N): Yes

**Air transport IATA/ICAO:**

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S (Glyphosate).

---

### 15. Regulatory Information

---

This material is listed in Institute for the Control of Agrochemicals Ministry of Agriculture, P.R. China (ICAMA). Reg No.: PD20084065

---

## 16. Other Information

---

### Additional information

This data in this Material Safety Data Sheet only to the specific material designated and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: Zhejiang Xinan Chemical Industrial Group Co., Ltd.

Address: Xinanjiang, Jiande, Zhejiang, 311600, China

Telephone: +86-571-87220468