

## MATERIAL SAFETY DATA SHEET

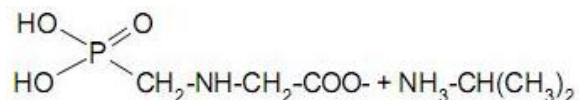
### RAPICIDE 480 SL

#### SECTION 1: PRODUCT IDENTIFICATION

**Product name:** Glyphosate IPA 480 g/ltr SL (as 41% w/w)

**Chemical abstracts name:** N-(phosphonomethyl) glycine compound with 2-propanamine (1:1)

**Structure:**



**CAS RN:** 38641-94-0

**Use catalogue:** Herbicide

**Manufacturer and address:** Jiangsu Aijin Agrochemical Co., Ltd. Address: No.58 Shuangxiang Road, Hongshan Fine-Chemical Zone, Nanjing 211511, China

#### SECTION 2: COMPOSITION AND INGREDIENT INFORMATION

|   |           |             |
|---|-----------|-------------|
| Glyphosate, in the form of Glyphosate IPA | 480 g/ltr | 41 % ( w/w) |
|---|-----------|-------------|

#### SECTION 3: HEALTH HAZARD INFORMATION

**Potential health effects:**

**Eye contact:** The undiluted product may cause pain, redness and tearing based on toxicity studies.

**Skin contact:** Prolonged contact may cause skin irritation.

**Ingestion:** No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Oral ingestion of large quantities of concentrated product has been reported to result in hypotension and pulmonary edema.

**Inhalation:** Low inhalation toxicity.

## SECTION 4: FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If person is not breathing, call an ambulance then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatments advice.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.

**Notes to physician:** This product is not an inhibitor of cholinesterase. Treatment with atropine and oximes is not indicated. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

## SECTION 5: FIRE AND EXPLOSION INFORMATION

**Extinguishing media:** Water, foam, dry chemical, and carbon dioxide.

**Special firefighting procedures:** Evacuate personnel to safe area. Keep personnel removed and upwind of fire. Wear full protective clothing and self-contained breathing apparatus. If water spray is used to fight fire, dike and collect runoff. Prevent the use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage.

**Hazardous decomposition products:** Thermal decomposition may produce irritating and possibly toxic gases including carbon monoxide, nitrogen oxides (NO<sub>x</sub>), and phosphorus oxides.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small spill:** Absorb small spills with sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal. Scrub area with hard water

detergent. Pick up wash liquid with additional absorbent and place into appropriate container for disposal.

**Large spill:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

## SECTION 7: HANDLING AND STORAGE

**Storage and handling:** Store the material in a cool, dry, secure area out of reach of children and domestic animals. Store above 10°F (-12°C) to keep product from crystallizing. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68°F (20°C) for several days to redissolve and shake or roll to mix well before using. Do not store food, beverages or tobacco product in the storage area. Prevent eating, drinking tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and after handling.

**Other precautions:** Do not contaminate water, food, or feed by storage or disposal.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye protection:** Wear safety goggles when mixing, loading, or cleaning equipment.

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Skin protection:** Long-sleeved shirt, long pants, shoes plus socks. Chemical-resistant gloves, if repeated or prolonged contact.

**Inhalation:** No special requirement when used as recommended.

**Other protective clothing or equipment:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Golden yellow transparent liquid

**Odor:** Characteristic

**pH:** 4.0-7.0

## SECTION 10: STABILITY AND REACTIVITY INFORMATION

**Stability:** Stable at normal temperature and pressure. Stable at 0 °C for 7 days. May decompose if heated.

**Conditions to avoid:** Temperatures above 115 °F (46 °C) and temperatures below 25 °C (-5 °C).

**Materials to avoid:** Strong oxidizers or bases, mild and galvanized steel, potassium permanganate.

**Hazardous decomposition products:** Thermal decomposition can lead to the release of toxic gases including carbon monoxide, nitrogen oxides, phosphorus oxides.

**Hazardous polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity:

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

Dermal: LD<sub>50</sub> > 5000 mg/kg (rats)

Inhalation: LC<sub>50</sub> > 2.8 mg/l (4 h, rats)

### Irritation properties:

Skin: No skin irritation (rabbit).

Eye: No eye irritation (rabbit).

**Skin sensitization:** None

## SECTION 12: ECOLOGICAL INFORMATION

### Based on Glyphosate tech:

**Birds** Acute oral LD<sub>50</sub> for bobwhite quail >3851 mg/kg. Dietary LC<sub>50</sub> (5 d) for quail and ducks >4640 mg/kg diet.

**Fish** LC<sub>50</sub> (96 h) for trout 86, bluegill sunfish 120, harlequin fish 168, sheepshead minnows >1000 mg/l.

**Daphnia** LC<sub>50</sub> (48 h) 780 mg/l.

**Algae** E<sub>b</sub>C<sub>50</sub> (72 h) for green algae (*Selenastrum capricornutum*) 485 mg/l, (7 d) 13.8 mg/l, E<sub>r</sub>C<sub>50</sub> (72 h) 460 mg/l; EC<sub>50</sub> (96 h) for marine algae (*Skeletonema costatum*) 1.3 mg/l, (7 d) 0.64 mg/l; EC<sub>50</sub> (7 d) for diatom (*Navicula pelliculosa*) 42, blue-green algae (*Anabaena flos-aquae*) 15 mg/l.

**Bees** LD<sub>50</sub> (48 h) (contact) >100 µg/bee; (oral) 100 µg/bee

## SECTION 13: DISPOSAL CONSIDERATIONS

**Pesticide Disposal:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

**Container Disposal (plastic containers):** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Bulk Tanks:** Triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

## SECTION 14: TRANSPORT INFORMATION

Not hazardous under applicable DOT, ICAO/IATA, IMO, TDG and Mexican regulations.

## SECTION 15: REGULATORY INFORMATION

### Safety phrases:

S 1/2: Keep locked up and out of reach children.

S 25: Avoid contact with eyes.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately.

## SECTION 16: OTHER INFORMATION

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