

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 1: IDENTIFICATION

**Product Name:** Glyphosate Acid Technical  
**EPA Reg. No.:** 87659-1  
**Active Ingredient:** N-(phosphonomethyl) glycine  
**Chemical Class:** Broad spectrum post-emergence herbicide

**Company Identification:**  
**CINMAX INTERNATIONAL, LLC**  
 3050 Metro Drive, Suite 113  
 Bloomington, MN 55425

**EMERGENCY TELEPHONE NUMBERS:**  
**CHEMTREC**  
 Tel: 1 (800) 424-9300 for transportation and spills

### SECTION 2: HAZARD IDENTIFICATION



**DANGER**  
 Corrosive to the eyes.  
 May be irritating to the respiratory tract.  
 Avoid breathing dust  
 Avoid contact with eyes, skin or clothing.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| <b>Chemical Name:</b> | <b>CAS Number</b> | <b>(% w/w)</b> |
|-----------------------|-------------------|----------------|
| Glyphosate            | 1071-83-6         | 98.0%          |
| Inert Ingredients     |                   | 2.0%           |

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 4: FIRST AID MEASURES

#### FIRST AID

- If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- If Swallowed:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.
- If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
- If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

### SECTION 5: FIRE-FIGHTING MEASURES

- FLASH POINT (method):** Not applicable
- FLAMMABLE LIMITS:** Not applicable
- FIRE AND EXPLOSION HAZARD:** Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion. Like all organic and most dry chemicals, airborne powder or dust in the presence of an ignition source may cause an explosion.

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 5: FIRE-FIGHTING MEASURES (cont'd)

|                                       |   |
|---------------------------------------|---|
| <b>EXTINGUISHING MEDIA:</b>           | Use dry foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Minimize the use of water to avoid environmental contamination. Contain all runoff.                               |
| <b>FIRE FIGHTING INSTRUCTIONS:</b>    | Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff. |
| <b>FIRE FIGHTING EQUIPMENT:</b>       | Self-contained breathing apparatus with full face-piece. Full fire fighting turnout gear (Bunker gear).   |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b> | Carbon dioxide, carbon monoxide, and nitrogen oxides.   |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, Wear proper safety equipment specified in Section 8 when handling this product. Isolate hazard area. Keep unnecessary personnel from entering.

**SMALL SPILL:** Sweep up small spills and place material in appropriate recovery drums for disposal.

**LARGE SPILL:** Contain large spills and recover for disposal. After removal, neutralize the spill area, tools, and equipment with a dilute alkaline solution (soda ash or lime) followed by an appropriate alcohol (methanol, ethanol or isopropanol). Wash the spill area, tools, and equipment with a strong soap and water solution. Absorb any excess liquid and add to the recovery drums of waste already collected. Dispose wastes as described in Section 13.

### SECTION 7: HANDLING AND STORAGE

**KEEP OUT OF REACH OF CHILDREN.** Do not contaminate water, food or feed by storage or disposal.

**HANDLING:** Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling this product. Use only in a well ventilated area.

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 7: HANDLING AND STORAGE (cont'd)

**STORAGE:** Store in original container only. Do not store near heat or open flame. In case of spill or leak, sweep up and dispose of waste.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS:** (8 Hour TWA): None established.

| <u>MATERIAL:</u>               | <u>% BY WT.</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|--------------------------------|-----------------|-----------------|------------------|
| Active Ingredients: Glyphosate | 98.0%           | Not established | Not established  |
| Inert Ingredients:             | 2.0%            | Not established | Not established  |

Although OSHA and ACGIH have not established specific exposure limits for this material, OSHA and ACGIH have established exposure limits for particulates applicable to dusts.

**OSHA PEL:** 15 mg/m<sup>3</sup> (total dust) 8 Hour TWA  
5 mg/m<sup>3</sup> (respirable) 8 Hour TWA

**ACGIH TLV:** 10 mg/m<sup>3</sup> (inhalable) 8 Hour TWA  
3 mg/m<sup>3</sup> (respirable) 8 Hour TWA

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Eye Protection:** Safety goggles or full face shield.

**Clothing:** Wear coveralls or long-sleeved uniform, head covering, socks, and chemical resistant shoes. Remove contaminated clothing and wash before re-wearing. Wash separately from other laundry.

**Gloves:** Chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber or Viton.

**Respirator:** When handling in enclosed areas where exposure limits may be exceeded, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Discard clothing and other absorbent materials that have been heavily contaminated with this product. 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.

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (cont'd)

#### USER SAFETY RECOMMENDATIONS:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                          |  |
|--------------------------|--|
| <b>Color:</b>            | White  |
| <b>Physical State:</b>   | Solid fine powder  |
| <b>Odor:</b>             | Aromatic odor  |
| <b>Molecular Weight:</b> | 169.1  |
| <b>Melting Point:</b>    | Decomposed at 219° C   |
| <b>Bulk Density:</b>     | 0.913 gm/cm <sup>3</sup> at ambient temperature (tap density)  |
| <b>Vapor Pressure:</b>   | 1.94 x 10 <sup>-7</sup> mm/Hg @ 45° C  |
| <b>Solubility:</b>       | Water = 1.330 g/100 mL; n-octanol = < 0.0009 g/100 mL; methanol = 0.00237 g/100 mL, and; n-hexane = < 0.0009 g/100 mL. |

### SECTION 10: STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>CHEMICAL STABILITY:</b>                   | Stable, however may decompose if heated.   |
| <b>CONDITIONS TO AVOID:</b>                  | Avoid excessive heat and fire.   |
| <b>INCOMPATIBILITY WITH OTHER MATERIALS:</b> | Reacts with galvanized steel and unlined mild steel to produce hydrogen, a highly flammable gas. |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>     | Carbon dioxide, carbon monoxide, and nitrogen oxides.  |

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 10: STABILITY AND REACTIVITY (cont'd)

**HAZARDOUS POLYMERIZATION:** Product will not undergo polymerization.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY:

**ORAL (rat):** The oral LD<sub>50</sub> is > 5,000 mg/kg .

**DERMAL (rabbit):** The dermal LD<sub>50</sub> is > 5,000mg/kg.

**INHALATION (rat):** The inhalation LC<sub>50</sub> (4 hrs.) is > 12.2 mg/L.

**EYE IRRITATION (rabbit):** Causes moderate to severe eye irritation.

**SKIN IRRITATION (rabbit):** Non-irritating.

**SKIN SENSITIZATION (guinea pig):** Non-sensitizer.

### SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified prior to the discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or the Regional Office of the EPA.

The active ingredient in this product is a non-selective broad spectrum herbicide. Do not handle or use in a manner that can result in accidental contact with desirable vegetation.

**ENVIRONMENTAL FATE:** Glyphosate is considered to be non-persistent in soils with a median half-life ranging from 1.85 to 2.06 days. It is strongly absorbed to soils and does not pose a threat to groundwater contamination. Studies indicate that glyphosate has a very low potential for bioaccumulation.

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 13: DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into formulation equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### SECTION 14: TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Not regulated by DOT, IMO, or IATA.

**HAZARD CLASS OR DIVISION:** None

**IDENTIFICATION NUMBER:** None

**PACKING GROUP:** Not applicable

**ADDITIONAL INFORMATION:** None

### SECTION 15: REGULATORY INFORMATION

#### FIFRA INFORMATION:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for the workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

**DANGER: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF INHALED.** Do not get in eyes or on clothing. Avoid breathing dust. Wear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Regulations under FIFRA: All pesticides are governed under FIFRA(Federal insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams

# Glyphosate Acid Technical

## Safety Data Sheet (SDS)

### SECTION 15: REGULATORY INFORMATION (cont'd)

resulting from manufacturing/ formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

#### OSHA HAZARD

**COMMUNICATION STANDARD STATUS:** Regulated

**CERCLA REPORTABLE QUANTITY:** Not Listed

#### SARA TITLE III STATUS:

- 302 Extremely Hazardous Substance: Not Listed
- 311/312 Hazard Categories: Immediate health hazard
- 313 Toxic Chemicals: Not Listed

**CLEAN AIR ACT:** Not Listed

**CLEAN WATER ACT:** Not Listed

#### STATES:

- California Proposition 65 Status: Not Listed

### SECTION 16: OTHER INFORMATION

**SDS Date:** May 13, 2015

**Revised Date:** June 22, 2018

This document is prepared pursuant to the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012. In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws and regulations. See SDS for health and safety information.