

## Section 1: Product and Company Identification

### 1.1 Product Identifiers:

**Product Name:** ABRAXIS® Glyphosate Spiking Solution, ABRAXIS® Glyphosate Control Solution - Mid Detection Range

**Product Code:** 301358, 500102

**1.2 Identified Use:** Determination of Glyphosate in samples. **Restrictions on Use:** For research use only.

**1.3 Company:** Gold Standard Diagnostics, 795 Horsham Road, Horsham, PA 19044 USA, info.abrax@us.goldstandarddiagnostics.com

+1(215) 357-3911, FAX +1(215) 357-5232

**1.4 Emergency Telephone Number:** +1(215) 357-3911

## Section 2: Hazard(s) Identification

### 2.1 Classification of the mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227 Combustible liquid

### 2.2 GHS Label elements, including precautionary statements:

Pictogram(s):



Signal word(s): Danger/Warning

Hazard statement(s):

H227 Combustible liquid.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

P391 Collect spillage.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:** Readily absorbed through skin

**2.4 Unknown acute toxicity:** None known.

## Section 3: Composition / Information on Ingredients

**3.2 Mixtures:** Mixture(s) of the hazardous substance(s) listed below, with nonhazardous additions.

Hazardous component(s):

Name and Synonym(s): Glyphosate      Formula: C<sub>3</sub>H<sub>8</sub>NO<sub>5</sub>P      Molecular weight: 169.07 g/mol

CAS No.: 1071-83-6      EC-No.: 213-997-4

Percentage in Mixture: 0.0000002 %

For full text of H-Statements mentioned in this Section, see Section 2.

## Section 4: First Aid Measures

**4.1 Description of first aid measures:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off immediately all contaminated clothing. Wash off with soap and plenty of water/shower. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water as a precaution. Immediately call in ophthalmologist. Remove contact lenses.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with two cups of water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed:** No data available. Treat symptomatically.

#### Section 5: Fire-fighting Measures

**5.1 Suitable extinguishing media:** Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

**5.2 Special hazards arising from the substance or mixture:** Carbon oxides, Nitrogen oxides, Oxides of phosphorus, Sulfur oxides, Combustible, Development of hazardous combustion gases or vapors possible in the event of fire.

**5.3 Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**5.4 Further information:** Suppress gases/vapors/mists with water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water systems.

#### Section 6: Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment (see section 8). Avoid dust formation. Avoid breathing vapors, mist, dust, or gas. Ensure adequate ventilation. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Remove all sources of ignition. Evacuate personnel to safe areas.

**6.2 Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections:** For information on safe handling see section 7. For information on personal protection see section 8. For information on disposal see section 13.

#### Section 7: Handling and Storage

**7.1 Precautions for safe handling:** See section 2. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge.

**7.2 Precautions for safe storage:** Keep container(s) tightly closed in a dry, well-ventilated place. Store under inert gas. Hygroscopic. See label or product insert for appropriate storage temperature and additional specific information. Storage class (TRGS 510): Combustible liquids.

**7.3 Specific end use(s):** Other than use(s) specified in section 1, no other uses are stipulated.

#### Section 8: Exposure Controls / Personal Protection

##### 8.1 Control parameters:

##### Component(s) with workplace control parameters

Glyphosate, CAS No. 1071-83-6

Value	Control parameters	Basis
TWA	5 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)

##### 8.2 Exposure controls:

**Appropriate engineering controls:** Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from food and beverages.

##### Personal protective equipment

**Eye protection:** Use equipment for eye protection with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** Do not breathe vapors. Use a chemical fume hood or approved respiratory protection equipment.

**Body protection:** Lightweight, protective clothing to prevent skin exposure.

#### Section 9: Physical and Chemical Properties

##### 9.1 Information on basic physical and chemical properties of mixture

**Appearance:** Multiple

**Odor:** Characteristic

**Odor Threshold:** No data available

**pH:** Multiple  
**Melting point/freezing point:** No data available  
**Initial boiling point and boiling range:** No data available  
**Flash point:** No data available  
**Evaporation rate:** No data available  
**Flammability (solid, gas):** No data available  
**Upper/lower flammability or explosive limits:** No data available  
**Vapor pressure:** No data available  
**Vapor density:** No data available  
**Relative density:** No data available  
**Water solubility:** Various  
**Partition coefficient: n-octanol/water:** No data available  
**Auto-ignition temperature:** Not applicable  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** No data available  
**9.2 Other information:** No data available

## Section 10: Stability and Reactivity

**10.1 Reactivity:** No data available  
**10.2 Chemical stability:** Stable under recommended storage conditions.  
**10.3 Possibility of hazardous reactions:** No data available  
**10.4 Conditions to avoid:** Keep away from open flame, hot surfaces, heat sources, and sources of ignition.  
**10.5 Incompatible materials:** Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents  
**10.6 Hazardous decomposition products:** No data available. In the event of fire: see section 5.

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity (Glyphosate, CAS No. 1071-83-6):**

**Ingestion LD50 Oral - Rat - 4,873 mg/kg**

Remarks: Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Respiratory stimulation. Nutritional and Gross Metabolic: Changes in: Body temperature increase.

**Inhalation:** No data available

LD50 Dermal - Rabbit - 2,000 mg/kg

**Skin contact:** No data available

**Serious Eye contact/eye irritation:** Causes serious eye damage

**Respiratory or skin sensitization:** No data available

**Carcinogenicity:**

IARC: 2A - Group 2A: Probably carcinogenic to humans (Phosphonomethylglycine)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive/fertility toxicity:** No data available

**Specific target organ toxicity, single exposure:** No data available

**Specific target organ toxicity, repeated exposure:** No data available

**Additional information:** RTECS: MC1075000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological Information

**12.1 Toxicity:** (*Dimethyl sulfoxide*, CAS No. 67-68-5) Toxicity to fish LC50 - *Pimephales promelas* (fathead minnow) - 34,000 mg/l - 96 h; LC50 - *Oncorhynchus mykiss* (rainbow trout) - 35,000 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 24,600 mg/l - 48 h (OECD Test Guideline 202). Toxicity to algae EC50 - *Pseudokirchneriella subcapitata* (green algae) - 17,000 mg/l - 72 h (OECD Test Guideline 201)

**12.2 Persistence and degradability:** No data available

**12.3 Bioaccumulative potential:** No data available

**12.4 Mobility in soil:** No data available

**12.5 Results of PBT and vPvB assessment:** No data available

**12.6 Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13: Disposal Considerations

### 13.1 Waste treatment methods

**Product:** All waste must be handled and disposed according to local, state, and federal regulations. Avoid disposing large volumes in sewer.

**Contaminated packaging:** All waste must be handled and disposed according to local, state, and federal regulations.

Refer to sections 7 and 8 for safe handling guidance.

## Section 14: Transport Information

DOT, Land Transport ADR/RID (cross-border), Maritime Transport IMDG, Air Transport ICAO-TI and IATA-DGR

**UN Number:** 3316

**UN Proper shipping name:** Chemical Kit, (contains DMSO)

**Transport hazard class(es):** 9

**Packing group:** III

**Environmental hazard:** See section 12

**Bulk transport:** Excepted/Limited quantity

**Special considerations:** See section 7 for handling

## Section 15: Regulatory Information

**EU Regulations, Hazard Symbol(s):** Glyphosate

**SARA Title III, Section 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA Title III, Section 304 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 304.

**SARA Title III, Section 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard; Chronic Health Hazard

### State Right-to-Know

Massachusetts: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania: Product does not contain any listed chemicals.

New Jersey: Product does not contain any listed chemicals.

California Prop. 65 Components: This product can expose you to chemicals including Phosphonomethylglyceric which is/are known to the State of California to cause cancer.

### United Nations

According to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Section 1.5.3.1.1, "an SDS should be provided based on the generic cut-off values/concentration limits indicated in" the following table:

Hazard class	Cut-off value/concentration limit
Acute toxicity	≥ 1.0%
Skin corrosion/irritation	≥ 1.0%
Serious eye damage/eye irritation	≥ 1.0%
Respiratory/Skin sensitization	≥ 0.1%
Germ cell mutagenicity (Category 1)	≥ 0.1%
Germ Cell mutagenicity (Category 2)	≥ 1.0%
Carcinogenicity	≥ 0.1%
Reproductive toxicity	≥ 0.1%
Specific target organ toxicity (single exposure)	≥ 1.0%
Specific target organ toxicity (repeated exposure)	≥ 1.0%
Aspiration hazard (Category 1)	≥ 10% of Category 1 ingredient(s) and kinematic viscosity ≤ 20.5 mm <sup>2</sup> /s at 40°C
Aspiration hazard (Category 2)	≥ 10% of Category 2 ingredient(s) and kinematic viscosity ≤ 14 mm <sup>2</sup> /s at 40°C
Hazardous to the aquatic environment	≥ 1.0%

Unless otherwise specified, if the concentration of a specific material of this kit is not declared by this SDS, it is at a concentration that is below the cut-off for its specific hazard class(es).

## Section 16: Other information

This information is based on our present knowledge. While Gold Standard Diagnostics believes that the data contained herein are factual and the opinions expressed represent a best effort to present accurate information, the data are not to be taken as a warranty or representation for which Gold Standard Diagnostics assumes legal responsibility. The information shall not be taken as being all-inclusive and is to be used only as

a guide. The data are offered solely for the user's consideration, investigation, and verification. These suggestions should not be confused with either state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.

All materials and mixtures may present unknown hazards and should be used with caution. Since Gold Standard Diagnostics cannot control the methods, volumes, or conditions of use of this product, Gold Standard Diagnostics shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material. This product is sold for research use only. It is not for any human or animal therapeutic or clinical diagnostic use.

**Date this SDS is effective:** 11/27/2024

**Version:** 01