



GLYPHOSATE ACID REGENERANT MSDS

MATERIAL SAFETY DATA SHEET

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Emergency Phone: 800-424-9300
(CHEMTREC 24hr)

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: GLY-99-0068
NAME: GLYPHOSATE ACID REGENERANT
SUBSTANCE: POTASSIUM PHOSPHATE BUFFER

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#: 7778-77-0 POTASSIUM PHOSPHATE, MONOBASIC < 1%
MF: KH_2PO_4
EC Number: 231-913-4
SYNONYMS: Potassium Acid Phosphate; Potassium Diphosphate; Monopotassium Phosphate; Potassium Dihydrogen Phosphate.

CAS#: 7664-38-2 PHOSPHORIC ACID, 2.5%
MF: H_3PO_4
RTECS: TB6300000
SYNONYMS: Orthophosphoric Acid

SECTION 3. HAZARDS IDENTIFICATION

NFPA Ratings (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0
LABEL: CORROSIVE.

INHALATION: May cause irritation to mucous membranes. May cause shortness of breath, pulmonary edema with frothy sputum, sore throat, coughing, choking, headache, dizziness, weakness, cyanosis, hypotension and rapid pulse.

SKIN CONTACT: May cause irritation. May cause pain, brownish or yellowish stains on skin.

EYE CONTACT: May cause irritation. May cause redness, pain, blurred vision, conjunctival and corneal destruction, tearing, and increased sensitivity to light.

INGESTION: May cause irritation. High dosages of phosphoric acid may cause sore throat, abdominal pain, burning in mouth and pharynx followed by vomiting and



GLYPHOSATE ACID REGENERANT MSDS

Page 2 of 5

diarrhea of dark precipitated blood. Immediate hypotension and brown or yellowish stains may be found around the mouth.

CARCINOGEN STATUS:

-OSHA: No.

-NTP: No.

-IARC: No.

SECTION 4. FIRST-AID MEASURES

SEEK MEDICAL ASSISTANCE FOR ANY OVEREXPOSURE.

SKIN: Wash thoroughly with soap and water.

EYES: Immediately flush thoroughly with water for at least 15 minutes.

INGESTION: If conscious drink copious amounts of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None, not a fire hazard.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Absorb material and collect in an appropriate container for disposal. Wash spill site with soapy water.

SECTION 7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances. Store in a cool dry place.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS: No occupational exposure limits established.

CHEMICAL SAFETY GOGGLES.



GLYPHOSATE ACID REGENERANT MSDS

Page 3 of 5

CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
COMPATIBLE CHEMICAL-RESISTANT GLOVES (PVC, RUBBER OR NITRILE).
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: ~1.00mL/g
APPEARANCE: Colorless liquid.
ODOR: Odorless.
BOILING POINT: ~100°C.
pH: 1.2
WATER SOLUBILITY: Water soluble.

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.
INCOMPATIBILITIES: Keep away from strong oxidizers and bases.
HAZARDOUS POLYMERIZATION: Will not occur.
DECOMPOSITION PRODUCTS: May form toxic oxides of phosphorous.

SECTION 11. TOXICOLOGICAL INFORMATION

TOXICITY (*Data for 85% Phosphoric Acid*): 1530 mg/kg oral-rat LD50; 2740 mg/kg skin-rabbit LD50; 595 mg/24 hrs skin-rabbit severe; 119 mg eye-rabbit severe.
INHALATION: No Data Available for a 2.5% Solution.
SKIN CONTACT: No Data Available for a 2.5% Solution.
EYE CONTACT: No Data Available for a 2.5% Solution.
INGESTION: No Data Available for a 2.5% Solution.

To the best of our knowledge, the chemical, physical and toxicological properties of a 2.5% phosphoric acid solution have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

Data Not Yet Available.



GLYPHOSATE ACID REGENERANT MSDS

Page 4 of 5

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORT INFORMATION

US DOT 49 CFR 172.101:

Proper shipping name: Corrosive Liquid, n.o.s. (Contains Phosphoric acid).

ID NUMBER: UN1760

HAZARD CLASS/ DIVISION: 8

PACKING GROUP: III

INTERNATIONAL (I.M.O.):

Proper shipping name: Corrosive Liquid, n.o.s. (Contains Phosphoric acid).

ID NUMBER: UN1760

HAZARD CLASS/ DIVISION: 8

PACKING GROUP: III

AIR (I.C.A.O.):

Proper shipping name: Corrosive Liquid, n.o.s. (Contains Phosphoric acid).

ID NUMBER: UN1760

HAZARD CLASS/ DIVISION: 8

PACKING GROUP: III

SECTION 15. REGULATORY INFORMATION

TSCA INVENTORY STATUS: Yes.

TSCA 12 (b) EXPORT NOTIFICATION: Not listed.

CERCLA SECTION 103 (40CFR302.4): No.

SARA SECTION 302 (40CFR355.30): No.

SARA SECTION 304 (40CFR355.40): No.

SARA SECTION 313 (40CFR372.65): No.

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: No.

CHRONIC: No.

FIRE: No.

REACTIVE: No.

SUDDEN RELEASE: No.

OSHA PROCESS SAFETY (29CFR1910.119): No.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: No.



GLYPHOSATE ACID REGENERANT MSDS

Page 5 of 5

CANADIAN REGULATIONS: Not assigned.

EUROPEAN REGULATIONS:

EC Classification: Not assigned (for less than 10%):

Concentration limits: $10\% \leq C < 25\% = \text{Xi}$

SWISS REGULATIONS:

Toxic Category 5: G-9514 Phosphoric Acid less than or equal to 5% concentration.

SECTION 16 OTHER INFORMATION

The above information is believed to be correct and shall be used only as a guide. The information may be inclusive. Transgenomic, Inc. shall not be held liable for any damage resulting from handling or from contact with the above material.

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