

FarmSaver.com

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Chemtrec (24 Hours): (800) 424-9300

"For Chemical Emergency"

Spill, Leak, Fire, Exposure or Accident, Call:

Chemtrec (24 Hours): (800) 424-9300

Outside U.S., call collect: (703) 527-3887

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: Quali-Pro Glyphosate T&O	CHEMICAL NAME (FORMULA): Isopropylamine Salt of N-(phosphonomethyl) glycine (Isopropylamine Salt of Glyphosate)
CHEMICAL CLASS: Synthetic Amino Acid Herbicide	

SECTION 2 - HAZARDOUS INGREDIENT INFORMATION

Section 313 of Sara Title III: Ingredients subject to reporting are identified by asterisk (*)

CAS NO.	COMPONENT	%	ACGIH TLV	OSHA PEL	OTHER
38641-94-0	Isopropylamine Salt of Glyphosate	41	N/D	N/D	N/D

SECTION 3 - PHYSICAL PROPERTIES

BOILING POINT: ~212°F (~100°C)	MELTING POINT: N/A	SPECIFIC GRAVITY: 1.1655 @ 20 °C/15.6 °C	VAPOR PRESSURE: N/A
VAPOR DENSITY (AIR=1): N/A	% SOLUBILITY IN WATER: 100%	% VOLATILE BY WEIGHT: N/D	
APPEARANCE: Clear, viscous colorless-amber liquid	ODOR: Slight Amine-like Odor	Ph: 4.4 – 5.0	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: Does not flash	FLAMMABLE LIMITS IN AIR (LFL - UFL): N/A
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EXTINGUISHING MEDIA:

Dry chemical, CO₂, water spray or foam may be used. Foam is preferred to avoid uncontrolled water that spreads contamination.

SPECIAL FIRE FIGHTING PROCEDURES:

Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). Equipment should be thoroughly decontaminated after use.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SECTION 5 - REACTIVITY DATA

STABILITY: **Stable under normal conditions of handling and storage.**

HAZARDOUS POLYMERIZATION: **Does not occur.**

HAZARDOUS DECOMPOSITION PRODUCTS: **Oxides of carbon, nitrogen and phosphorus.**

CONDITIONS & MATERIALS TO AVOID:

Reacts with bases to liberate heat. Reacts with and corrodes galvanized steel or unlined steel to produce hydrogen, a highly flammable gas that could explode.

PRODUCT NAME: Quali-Pro Glyphosate T&O

SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION:

No special requirement when used as recommended.

VENTILATION	LOCAL EXHAUST: Adequate	MECHANICAL: Acceptable	SPECIAL: None	OTHER: None
PROTECTIVE GLOVES AND BOOTS: Chemical-resistant gloves made of any waterproof material.		EYE PROTECTION: Protective eyewear (e.g., goggles or full-face shield).		
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long-sleeved shirt, long pants, shoes plus socks.		WORK/HYGIENIC PRACTICES: Do not get in eyes or on clothing. Avoid breathing vapor or spray mist. 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 maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.		

SECTION 7 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

Eyes, skin and inhalation.

CARCINOGEN:

Not a carcinogen

NTP:

Not listed.

MUTAGENICITY:

Not mutagenic.

TERATOLOGY (BIRTH DEFECTS):

Not a teratogen.

INHALATION:

Harmful if inhaled but not expected to produce significant adverse effects when used as recommended.

EYE CONTACT:

Causes substantial but temporary eye injury.

SKIN CONTACT:

Not expected to produce significant adverse effects when used as recommended.

INGESTION:

Harmful if swallowed. Causes gastrointestinal tract irritation. May cause nausea/vomiting, diarrhea.

ALLERGIC SKIN REACTIONS (Dilute Mix):

Not a skin sensitizer.

SECTION 8 - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT:

Immediately hold eyelids open and flush with plenty of water for at least 15 minutes. Remove contact lenses, if present, after first 5 minutes then continue rinsing eyes. Get medical attention.

SKIN CONTACT:

Wash skin with plenty of water.

INHALATION:

Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

INGESTION:

This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention. NEVER 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.

SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Small Spill: Absorb small spills or sand, vermiculate or other inert absorbent. Place contaminated material in 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.

PRODUCT NAME: Quali-Pro Glyphosate T&O

WASTE DISPOSAL METHOD:

Dispose of as hazardous industrial waste. Recycle if appropriate facilities/equipment is available. Burn in special, controlled high temperature incinerator. Keep out of drains, sewers, ditches, and water ways. Pesticide Wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

SECTION 10 – ECOLOGICAL INFORMATION

SUMMARY OF EFFECTS:

Moderately toxic to fish and green algae, slightly toxic to aquatic invertebrates, practically non-toxic to birds and bees. No significant bioaccumulation.

FISH TOXICITY (Technical):

96 hour LC₅₀, Rainbow Trout

8.2 mg/L

INVERTEBRATE (Technical):

48 hour EC₅₀, *Daphnia magna*

12.9 mg/L

MOVEMENT & PARTITIONING:

Low mobility to immobile in soil. Binds strongly to soil.

Partition coefficient: <0.000 (active ingredient)

SECTION 11 - SHIPPING DATA

DOT PROPER SHIPPING NAME:

Not regulated.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health N/A

Flammability N/A

Reactivity N/A

Additional Labeling: None

SECTION 12 - SPECIAL INSTRUCTIONS

SPECIAL INSTRUCTIONS:

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Store product in original container.

SECTION 13 - OTHER INFORMATION/PRECAUTIONS

TSCA STATUS:

Isopropylamine Salt of Glyphosate (CAS No. 38641-94-0)

SARA TITLE 3: SECTION 302 EXTREMEKY HAZARDOUS SUBSTANCE:

N/A

SARA TITLE 3: SECTION 311/312 CATEGORIZATIONS (40CFR 370):

Acute Hazard: Immediate

SARA TITLE 3: SECTION 313 INFORMATION (40CFR 372):

N/A

CALIFORNIA PROPOSITION 65:

Does not contain any substances known to the State of California to cause cancer or reproductive harm.

CERCLA REPORTABLE QUANTITY:

N/A

COMMON ABBREVIATIONS THAT MAY HAVE BEEN USED: N/A = NOT APPLICABLE N/D = NOT DETERMINED

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