

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-222-1222

1. IDENTIFICATION

PRODUCT NAME:  **SATE GLYPHOSATE 53.8%**

DESCRIPTION: A liquid herbicide
EPA Reg. No.: 88343-5

COMPANY IDENTIFICATION:
Xingfa USA Corporation
16200 Park Row Dr, Suite 195
Houston, TX 77084

2. HAZARD IDENTIFICATION

WARNING

May be harmful in inhaled (H333)
Harmful to aquatic life (H402)

HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute toxicity, inhalation	5	None	-
		Environmental Hazards	Category
		Hazardous to the aquatic environment, short-term (acute)	3

HAZARDS NOT REQUIRING CLASSIFICATION

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Do not use or store near any oxidizing agents. Do not mix or allow coming in contact with any oxidizing agents. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

IF INHALED: Get medical help. (P304+P317)

Avoid release to the environment not in accordance with the product label. (P273)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Glyphosate IPA Salt	N-(phosphonomethyl)glycine, isopropylamine salt	38641-94-0	53.8%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency and general information on product use, etc., information pertaining to this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday – Friday 8:00 am – 12:00 pm Pacific Time; email: npic@ace.orst.edu; or web site: www.npic.orst.edu. For emergencies, call the poison control center 1-800-222-1222.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

5. FIREFIGHTING MEASURES

Flash Point: Not available.

Flammable Limits: Not determined.

Fire and Explosion Hazards: May decompose in fire due to releasing irritating or toxic gases including carbon monoxide, nitrogen oxide, phosphorous oxides.

Extinguishing Medium: Dry chemical, carbon dioxide (CO₂), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: 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.

Hazardous Combustion Products: Carbon monoxide, nitrogen oxides, and phosphorus oxides.

NFPA Ratings: Health – 1 / Flammability – 0 / Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Keep out of reach of children.

Handling: Remove and wash contaminated clothing before reuse.

Storage: 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 roll or shake container or recirculate in mini-bulk or bulk container to mix well before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Wear long-sleeved shirt and long pants, and shoes plus socks.

General: Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	pale yellow liquid	Viscosity:	83.15 cSt (20°C)
Odor:	faint characteristic odor		29.59 cSt (40°C)
Melting/freezing point:	not available	Solubility:	not available
Boiling point/Boiling range:	not available	Partition coefficient:	not available
Flammability:	not available	Vapor pressure:	not available
Flammability limits (upper/lower):	not available	Density:	1.21-1.23 g/mL (10.1-10.3 lb./gal)
Flash point:	not available	Relative vapor density:	not available
Auto-ignition temperature:	not available	Particle characteristics:	not available
Decomposition temperature:	not available	Explosive Properties:	not available
pH:	4.0-5.0		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Use of galvanized or unlined steel.

CHEMICAL STABILITY: Stable under normal temperature conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: This product and its spray solutions will react with galvanized or unlined steel to produce hydrogen gas that may form a highly combustible gas mixture, which could flash or explode if ignited. Acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Will emit toxic fumes as it burns.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

DERMAL TOXICITY (rabbit LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.09 mg/L (4-hour)

EYE IRRITATION: Rabbit – Minimal irritant

SKIN IRRITATION: Rabbit – Slight irritant

SKIN SENSITIZATION: Guinea pig - Not a contact sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

NTP: Not Listed

IARC: Group 2A¹

OSHA: Not Listed

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

REPRODUCTIVE TOXICITY: Not known to cause reproductive or birth defects at normal exposure levels.

DEVELOPMENTAL TOXICITY: Effects on offspring only noted with maternal toxicity.

MUTAGENICITY: No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

¹ Carcinogenicity: Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but, in the expert opinion of the industry, this classification as a carcinogen is not warranted.

12. ECOLOGICAL INFORMATION

Slightly to practically non-toxic to birds, fish, aquatic invertebrates, and bees. Toxic to non-target terrestrial and aquatic plant species. Keep out of waterways.

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.

The following information is for the active ingredient, Glyphosate IPA salt:

AQUATIC TOXICITY:

Rainbow Trout and Bluegill (96-hr LC₅₀): > 1,000 mg/L

Fathead minnow (96-hr LC₅₀): 97 mg/L

Daphnia (48-hr LC₅₀): 930 mg/L

Algae (72-hr EC₅₀): 72.9 mg/L

12. ECOLOGICAL INFORMATION (CONT.)

AVIAN TOXICITY:

Bobwhite quail: (oral LD₅₀) > 3,851 mg/kg-bw; (dietary LC₅₀) >4,640 mg/kg-bw

Mallard duck: (dietary LC₅₀) > 4,640 mg/kg-bw

OTHER TOXICITY:

Honeybee: (contact LD₅₀) 100 µg/bee; (oral LD₅₀) > 100 µg/bee

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must 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: Nonrefillable and refillable containers. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US DOT:

Not regulated

IMDG:

Not regulated

IATA:

Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

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 workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution.

Domestic Animals: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

15. REGULATORY INFORMATION (CONT.)

PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product must be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Do not use or store near any oxidizing agents. Do not mix or allow coming in contact with any oxidizing agents. Hazardous chemical reaction may occur.

ENVIRONMENTAL HAZARDS

FOR TERRESTRIAL USE ONLY: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute)

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA Reportable Quantity (RQ) –

None

CALIFORNIA PROP 65 STATUS –

⚠ WARNING: This product can expose you to chemicals including glyphosate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

NOTICE: Although the information and recommendations on this Safety Data Sheet ("SDS") are presented in good faith and believed to be correct, Xingfa USA Corporation ("Xingfa") makes no representations or warranties as to the completeness or accuracy of the SDS.

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