Material Safety Data Sheet

SECTION 1. IDENTIFICATION

Product Name: Kong Glufosinate 280 Herbicide
EPA Registration No.: 88685-2-84237
Recommended Use: Herbicide
Manufacturer: Solera ATO, LLC
12230 E Del Norte
Yuma, AZ 85367
Customer Service (928) 503-1518

FOR MEDICAL EMERGENCIES, CONTACT the National Poison Information Center 1-800-222-1222
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

HAZARD CLASSIFICATION
Acute Oral Toxicity: Category 4; Acute dermal Toxicity: Category 4; Acute Inhalation Toxicity: Category 3;

SIGNAL WORD Warning

HAZARD STATEMENTS
Warning! May be fatal if absorbed through skin. Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eye, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PICTOGRAMS

PRECAUTIONARY STATEMENTS
This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

DESCRIPTION OF HAZARDS NOT OTHERWISE CLASSIFIED
Do not use with or store near oxidizing agents since hazardous chemical reaction may occur.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
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<tbody>
<tr>
<td>Glufosinate ammonium</td>
<td>77182-82-2</td>
<td>24.5</td>
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<tr>
<td>1-Methoxy-2-propanol</td>
<td>107-98-2</td>
<td></td>
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</tbody>
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SECTION 4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: 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.
Notes to Physician
There is no specific antidote if this product is ingested. Treat symptomatically.

Medical Conditions Likely to be Aggravated by Exposure
None known.

SECTION 5. FIRE FIGHTING MEASURES

Unusual Fire, Explosion and Reactivity Hazards
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire
Use dry chemical, foam, water spray or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

SECTION 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment (PPE)
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:
- Coveralls worn over short-sleeved shirt and short pants;
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils;
- Chemical resistant footwear plus socks;
- Protective eyewear (goggles, face shield or safety glasses);
- Wear a chemical resistant apron when mixing/loading and cleaning equipment.

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Mixers/loaders supporting aerial applications must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter. When mixing and loading wear a chemical-resistant apron. For overhead exposure wear chemical-resistant headgear. When cleaning equipment wear a chemical-resistant apron.

Engineering Control Statement:
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue
Physical State: liquid
Odor: Not determined
pH: 6.5-7.5 (100%)
Specific Gravity: 1.126 at 20 °C
Flash Point: > 200.1 °F
Flammable Limits (% in Air): Lower: % Not Applicable  Upper: % Not Applicable
Autoignition Temperature: Not Available
Flammability: Not Applicable
Melting / Freezing Point: Not Applicable

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, flames and sparks.
Materials to Avoid: Strong acids, bases and oxidizing agents.
Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)
Ingestion: Slightly Toxic
   Oral (LD50 Rat): >300 - <2,000 mg/kg body weight
Dermal: Slightly Toxic
   Oral (LD50 Male Rat): 1,400 mg/kg body weight
   Oral (LD50 Female Rat): 800 mg/kg body weight
Inhalation: Inhalation (LC50 Rat): >2.1 mg/l air – 4 hours
Eye Contact: Severely Irritating (Rabbit)
Skin Contact: Slightly Irritating (Rabbit)
Skin Sensitization: A moderate skin sensitizer in animal tests.

Reproductive/Developmental Effects. Glufosinate ammonium:
Glufosinate ammonium was not a primary reproductive toxicant in rats. There was a decrease in the number of viable pups at the high dose in conjunction with maternal toxicity.
Glufosinate ammonium was not a primary developmental toxicant in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed in rats but were considered secondary to maternal toxicity.

Neurotoxicity Studies. Glufosinate ammonium:
Glufosinate ammonium was not a neurotoxicant in acute and subacute neurotoxicity screening studies in rats. In a developmental neurotoxicity study in rats, offspring exposed to glufosinate ammonium showed increases in locomotor activities. These effects occurred at high doses and in conjunction with maternal toxicity.

Mutagenicity. Glufosinate ammonium:
Glufosinate ammonium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

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 surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Do not allow to get into surface water, drains and ground water. Drift or runoff from treated areas may adversely affect non-target plants.
Apply this product as specified on the label. Do not apply when weather conditions favor runoff or drift.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.
DISPOSAL
Do not contaminate water, food or feed by storage. Pesticide wastes are acutely hazardous. 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.

CONTAINER DISPOSAL
Do not reuse product containers. Dispose of product containers, waste containers, and residues according
to local, state, and federal health and environmental regulations.
Do not contaminate water, food, or feed by disposal.

SECTION 14. TRANSPORT INFORMATION

DOT Classification
Ground Transport Not Regulated
B/L Freight Classification
Compounds, Tree or Weedkilling, N.O.I., other than poison, having a density of 20 LBS or greater per
cubic foot (NMC Class 60).

SECTION 15. REGULATORY INFORMATION

TSCA list
Exempt from TSCA, subject to FIFRA

SARA Title III
Section 311/312 Acute Health Hazard
Chronic Health Hazard
Section 313 Chemical(s) Glufosinate ammonium (24.5%) (CAS No. 77182-82-2)

CA Prop65
Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)
Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261)
Not Applicable

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 2 Flammability - 1 Reactivity - 0 Others - none
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard
This information is provided in good faith but without express or implied warranty. The customer assumes all
responsibility for safety and use not in accordance with label instructions

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