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Version 2

1. IDENTIFICATION

Product Identifier **Product Name Glyphogan Plus herbicide** Other means of identification SDS # ADAMA-073 **Registration Number(s)** EPA Reg. No. 66222-176 Recommended use of the chemical and restrictions on use **Recommended Use** EPA registered pesticide. Details of the supplier of the safety data sheet Manufacturer Address Makhteshim Agan of North America, Inc. (d/b/a ADAMA) 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604 1-919-256-9300 Emergency Telephone Number **Emergency Telephone (24 hr)** For fire, spill and/or leak contact INFOTRAC: 1-800-535-5053 (North America) 1-352-323-3500 (International) For medical emergencies and health/safety inquiries, contact PROSAR: 1-877-250-9291 2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information. The product contains no substances which, at their given concentration, are considered to be hazardous to health.

Appearance Light yellow to amber clear liquid

Physical State Liquid

Odor Amine-like

Classification

Acute toxicity – Inhalation (Dusts/Mists)

Signal Word Warning Category 4

Safety Data Sheet

Hazard Statements



Precautionary Statements - Prevention

Avoid breathing dust/mist Use only outdoors or in a well-ventilated area

Precautionary Statements – Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a poison center/doctor if you feel unwell

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropylamine salt of	38641-94-0	41
glyphosate		

4. FIRST-AID MEASURES

First Aid Measures

General Advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.	
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.	
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.	
Inhalation	Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Call a poison control center or doctor for further treatment advice.	
Ingestion	Immediately call a poison center or doctor/physician. Do not induce vomiting, unless directed by medical personnel. Never give anything by mouth to an unconscious person.	
Most important symptoms and effe	ects	
Symptoms	Direct contact with eyes may cause temporary irritation. Ingestion may cause symptoms of gastrointestinal irritation including abdominal discomfort, nausea, vomiting, and diarrhea.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

Suitable Extinguishing Media

Water spray (fog). Foam. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxide. Phosphorus oxides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal Precautions
 Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
- **Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Absorb with inert material, and then place in suitable container for chemical waste. Clean the floor with detergent and water. Do not flush to sewer.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Use in accordance with product label instructions. Do not eat, drink, smoke, or apply cosmetics while handling this product. Do not breathe dust/fume/gas/mist/vapors/spray. Follow all product label instructions. Use only as directed.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Keep/store only in original container. Store at ambient conditions. Do
	not contaminate water, food, or feed by storage or disposal. Store above 10°F. If allowed to
	crystallize, place in a warm room at 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.

Incompatible Materials Strong oxidizing agents. Strong bases. Mild steel. Galvanized metal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	The following information is given as general guidance		
Appropriate engineering controls			
Engineering Controls	Please refer to the product label. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.		

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles). Goggles are recommended.
Skin and Body Protection	Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear long- sleeved shirt, long pants, and shoes plus socks. Use chemical resistant gloves, such as P.V.C., butyl-rubber, nitrile-rubber, or neoprene.
Respiratory Protection	NIOSH-approved respirator or mask in the absence of adequate ventilation.
General Hygiene Consideratior	Is Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Light yellow to amber clear liquid Clear light yellow to amber	Odor Odor Threshold	Amine-like Not determined
PropertypHMelting Point/Freezing PointBoiling Point/Boiling RangeFlash PointEvaporation RateFlammability (Solid, Gas)Upper Flammability LimitsLower Flammability LimitVapor PressureVapor DensitySpecific GravityWater SolubilitySolubility in other solventsPartition CoefficientAuto-ignition TemperatureDecomposition TemperatureKinematic ViscosityExplosive PropertiesOxidizing PropertiesDensity	Values4.5-5.5Not determinedNot determined> 100 °C / > 212 °FNot determinedLiquid-not applicableNot determinedNot determinedS5.955 (20°C); 22.755 (40°C) cStNot determinedNot determined <td< th=""><th><u>Remarks • Method</u></th><th></th></td<>	<u>Remarks • Method</u>	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous p

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents. Strong bases. Mild steel. Galvanized metal.

Hazardous Decomposition Products

Nitrogen oxides (NOx). Phosphorous oxides. Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information				
Eye Contact	Avoid contact with eyes.			
Skin Contact	Avoid contact with skin.			
Inhalation	Harmful if inhaled.			
Ingestion	Do not ingest.			
Component Information	Not available			
Information on physical, chemical and toxicological effects				
Symptoms	Please see section 4 of this SDS for symptoms.			
Delayed and immediate effects as v	well as chronic effects from short and long-term exposure			
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.			
Product Information (Numerical me Acute Oral LD50 (Rat): >5,000 mg/kg Acute Dermal LD50 (Rabbit): >5,000 Acute Inhalation LC50 (Rat): >2.5 m Eye Irritation: Moderately irritating. Dermal Irritation: Mildly irritating. Dermal Sensitization: Not a skin ser	g) mg/kg ıg/L (4-hr)			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects. 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 cleaning equipment or disposing of equipment washwaters.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

<u>Mobility</u>

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	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 of the nearest EPA Regional Office for guidance.	
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
	14. TRANSPORT INFORMATION	
DOT	Not regulated	
IATA_	Not regulated	
IMDG		

Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Listed or exempt.

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

<u>SARA 313</u>

Not determined

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not determined

EPA Pesticide Registration Number 66222-176

EPA Statement

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. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Signal Word: Caution

Causes moderate eye irritation. Harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Warning
Acute toxicity - Oral	Harmful if swallowed	N/A
Acute toxicity - Inhalation	Harmful if inhaled	Harmful if inhaled
Serious eye damage/eye irritation	Causes moderate eye irritation	N/A

16. OTHER INFORMATION

NFPA HMIS	Health Hazards 1 Health Hazards 1	Flammability 1 Flammability 1	Instability 1 Physical Hazards 1	Special Hazards None Personal Protection See section 8
Issue Date: Revision Date: Revision Note:	03-Feb-2009 30-Oct-2015 Updated format from 11-Nov-2014			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet