

GRAMOXONE SL 3.0

Date: 10/3/2019

Replaces: 9/4/2019

1. PRODUCT IDENTIFICATION

Product identifier on label: **GRAMOXONE SL 3.0**

Product No.: A12837AM

Use: Herbicide (Restricted Use
Pesticide)

Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Corrosive to Metals: Category 1
Specific Target Organ Toxicity: Respiratory Irritation Category 3
Eye Damage/Irritation: Category 1
Specific Target Organ Toxicity: Repeated Category 1
Oral: Category 3
Inhalation: Category 1

Signal Word (OSHA): Danger

Hazard Statements: May be corrosive to metals
Toxic if swallowed
Causes serious eye damage
Fatal if inhaled
May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements: Keep only in original container.
Do not breathe mist, vapors, spray.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.
Wear eye protection.

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If swallowed: Immediately call a poison center, doctor or Syngenta. Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center, doctor or Syngenta.
Specific treatment is urgent (see Section 4 First Aid Measures).
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant plastic, plastic-lined steel or fiberglass container.
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
2-amino-,5-dihydro-6-methyl-4-propyl-s-triazole-[1,5-a]pyrimidin-5-one	Paraquat Emetic	27277-00-5	>= 0.1 - < 1%
(1,1'-dimethyl-4,4'-bipyridinium dichloride)	Paraquat Dichloride	1910-42-5	43.8275%

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

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by 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 Syngenta (800-888-8372), 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 Syngenta (800-888-8372), 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

Eye irritation
Respiratory irritation

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.
Treat symptomatically.

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Refer to the booklet 'Paraquat Poisoning. A Practical Guide to Diagnosis, First Aid and Hospital Treatment (<http://www4.syngenta.com/what-we-do/crops-and-products/paraquat-safety>). Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15 ml/kg body weight in children). NOTE: The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit. Do not use supplemental oxygen. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset corneal ulceration, it is advised that patients with paraquat eye injuries are reviewed by an eye specialist the day after first presentation. Use treatment that is appropriate for chemical burns. Intact skin is an effective barrier to paraquat, however, contact with irritated or cut skin or repeated contact with intact skin may result in poisoning.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

None known.

Special protective equipment and precautions for firefighters:

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

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.

7. HANDLING AND STORAGE

Precautions for safe handling:

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.

Conditions for safe storage, including any incompatibilities:

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.

Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

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Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Paraquat Emetic	Not Established	Not Established	0.02 mg/m ³ TWA	Syngenta
Paraquat Dichloride	0.5 mg/m ³ TWA (respirable dust)	0.1 mg/m ³ TWA (respirable)	0.01 mg/m ³ TWA (inhalable fraction)	Syngenta

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely, use splash-proof chemical goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact:

Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.

Inhalation:

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH certified respirator with any R, P or HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark green liquid

Odor: Not Available

Odor Threshold: Not Applicable

pH: 3-7 (1% w/v)

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Applicable

Flash Point (Test Method): >200°F (Pensky-Martens CC)

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Paraquat Dichloride 7.5 x 10⁻⁸ mmHg @ 77°F (25°C)

Vapor Density: Not Available

Relative Density: 1.11-1.15 g/cm³ @ 68°F (20°C)

Solubility (ies): Paraquat Dichloride 620 g/l @ 68°F (20°C)

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: >1202°F

Decomposition Temperature: Not Available

Viscosity: 4mPa @ 68°F (20°C)

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Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: None known.

Incompatible materials: Galvanized steel, carbon steel, aluminum or unlined steel containers.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Eye irritation, Skin irritation, Respiratory irritation

Delayed, immediate and chronic effects of exposure: Eye irritation, Skin irritation, Respiratory system effects

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	175 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 2000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	1 ug/l
Eye Contact:	Moderate Irritant	
Skin Contact:	Slightly Irritating	
Skin Sensitization:	Not a Sensitizer (LLNA Assay)	

Reproductive/Developmental Effects

Paraquat Dichloride: No toxicity to reproduction

Chronic/Subchronic Toxicity Studies

Paraquat Dichloride: This substance is classified as a specific target organ toxicant, single, category 3 with respiratory irritation.

This substance is classified as a specific target organ toxicant, repeated, category 1.

Carcinogenicity

Paraquat Dichloride: No evidence of carcinogenicity in animal studies

Chemical Name	NTP/IARC/OSHA Carcinogen
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2-amino-,5-dihydro-6-methyl-4-propyl-s-triazole-[1,5-a]pyrimidin-5-one	No
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(1,1'-dimethyl-4,4'-bipyridinium dichloride) No

Other Toxicity Information

Not Available

Toxicity of Other Components

Paraquat Emetic

Toxic if swallowed. Slightly irritating to skin and eyes. Inhalation of dust may cause nausea and vomiting.

Target Organs

Active Ingredients

Paraquat Dichloride: Lungs, kidney

Inert Ingredients

Paraquat Emetic: Skin, eye, respiratory system

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Paraquat Dichloride:

Fish (Bluegill Sunfish) 96-hour LC50 4.7 mg cation/L

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 1.2 mg cation/L

Bird (Bobwhite Quail) 8-day LD50 24.5 mg cation/kg bw

Green Algae 4-day EC50 0.075 mg cation/L

Environmental Fate

Paraquat Dichloride:

The information presented here is for the active ingredient, paraquat dichloride.

Low bioaccumulation potential. Persistent in soil. Persistent in water. Immobile in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Paraquat)

Hazard Class: Class 8 (6.1)

Identification Number: UN 2922

Packing Group: PG III

Comments

Water Transport - International

Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Paraquat)

Marine Pollutant

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Hazard Class: Class 8 (6.1)
Identification Number: UN 2922
Packing Group: PG III

Air Transport
Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Paraquat)
Hazard Class: Class 8 (6.1)
Identification Number: UN 2922
Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:

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:

Danger-Poison: May be fatal if swallowed. Fatal if inhaled. Do not breathe spray mist. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

EPA Registration Number(s):
100-1652

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: See Section 2 Hazards
Section 313 Toxic Chemicals: Paraquat Dichloride 43.8275% (CAS No. 1910-42-5)

CERCLA/SARA 304 Reportable Quantity (RQ):
No Components

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable

TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 4
Flammability: 0
Instability: 0

HMIS Hazard Ratings

Health: 4*
Flammability: 0
Physical Hazard: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: D,S

For non-emergency questions about this product call:

1-800-334-9481

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Date: 10/3/2019
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Original Issued Date: 8/21/2019
Revision Date: 10/3/2019 Replaces: 9/4/2019
Section(s) Revised: 1-16

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