

SECTION 1: PRODUCT INFORMATION

Product Identifier: GRAMOXONE® LIQUID HERBICIDE

Formulation Number: A3879G

Registration Number: 8661 (Pest Control Products Act)

Product Use: Herbicide. Please reference the approved product label for further details.

Syngenta Canada Inc.

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MSDS prepared by: Department of Regulatory & Biological Assessment, Syngenta Canada Inc.

For further information, contact: 1-87-SYNGENTA (1-877-964-3682)

In Case of Emergency, Call: 1-800-327-8633 (FAST MED)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with UN GHS Version 5.

Hazard Classification(s):

Acute Toxicity (Dermal) – Category 3

Acute Toxicity (Inhalation) – Category 1

Acute Toxicity (Oral) – Category 4

Aquatic Acute Toxicity – Category 1

Aquatic Chronic Toxicity – Category 1

Corrosive to Metals – Category 1

Reproductive Toxicity – Category 2

Serious Eye Damage – Category 1

Skin Irritation – Category 2

Specific Target Organ Toxicity (STOT) Single Exposure – Category 3

Specific Target Organ Toxicity (STOT) Repeated Exposure – Category 1

Hazard Symbol(s):



Signal Word:

DANGER

Hazard Statement(s):

H290 – May be corrosive to metals.

H302 – Harmful if swallowed.

H310 – Toxic in contact with skin.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H330 – Fatal if inhaled.

H335 – May cause respiratory irritation.

H361 – Suspected of damaging fertility or the unborn child.

H372 – Causes damage to organs through prolonged or repeated exposure.

H400+H410 – Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):
Prevention:

P102 – Keep out of reach of children.
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P234 – Keep only in original packaging.
P260 – Do not breathe dust/fume/gas/mist/vapours/spray.
P264 – Wash thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P271 – Use only outdoors or in a well-ventilated area.
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P284 – Wear respiratory protection.

Response:

P301+P310 – IF SWALLOWED: Call a POISON CENTER/doctor.
P302+P352 – IF ON SKIN: Wash with plenty of water.
P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313+P314 – IF exposed, concerned, or you feel unwell: Get medical advice/attention.
P310 – Immediately call a POISON CENTER/doctor if in eyes.
P320 – Specific treatment is urgent: See Section 4 of this SDS.
P330 – Rinse mouth.
P332 – If skin irritation occurs: Get medical advice/attention.
P361+P364 – Take off immediately all contaminated clothing and wash it before reuse.
P390 – Absorb spillage to prevent material damage.
P391 – Collect spillage.

Storage:

P403+P233 – Store in a well ventilated place. Keep container tightly closed.
P405 – Store locked-up.

Disposal:

P501 – Dispose of contents/container to an approved waste disposal plant.

Other Hazards Which do not Result in GHS Classification: To avoid risk to human health and the environment, comply with the instructions for use. Untreated spilled material can dry to a highly irritating dust.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Average % by weight
1,1'-diethyl-4,4'-bipyridium chloride	Paraquat dichloride	1910-42-5	25.5
Benzenesulfonic acid, mono-C10-C14-alkyl derivative, sodium salt	Alkyl benzenesulfonic acid, sodium salt	85117-50-6	5 – 10
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-	Poly(oxyethylene)nonylphenyl ether	9016-45-9	1 – 5
2-amino-4,5-dihydro-6-methyl-4-propyl-s-triazole-[1,5-a]pyrimidin-5-one	Paraquat emetic	27277-00-5	< 1

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

SECTION 4: FIRST AID MEASURES

IF POISONING IS SUSPECTED, immediately contact the poison information centre, doctor or nearest hospital. Have the product container, label or Safety Data Sheet with you when calling Syngenta, a poison control centre or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Call the Syngenta Emergency Line [1-800-327-8633 (1-800-FASTMED)], for further information.

Eye Contact: IF IN EYE IMMEDIATELY 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. Call a poison control center or physician for treatment advice IMMEDIATELY.

Skin Contact: IF ON SKIN OR CLOTHING IMMEDIATELY remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison center or physician for treatment advice IMMEDIATELY.

Inhalation: IF INHALED, IMMEDIATELY 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 physician for treatment advice IMMEDIATELY.

Ingestion: IF INGESTED, CALL 911 or an ambulance. **SPEED IS ESSENTIAL. Immediate medical attention is required.** If available, give an adsorbent such as activated charcoal or bentonite. Never give anything by mouth to an unconscious person.

DANGER: Fatal if swallowed or inhaled. **Prompt medical attention is required.** Harmful or fatal if absorbed through the skin. Causes severe skin burns and eye injury. Mucosal irritation or nose bleeds may occur.

Most Important Symptoms/Effects, Acute and Delayed:

Inflammation of the mouth, throat and esophagus.

Gastrointestinal discomfort.

Diarrhea.

Indication of Immediate Medical Attention and Special Treatment:

Refer to the booklet 'Paraquat Poisoning: A Practical Guide to Diagnosis, First Aid and Medical Management' (<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 bentonite clay (100-150 g for adults or 2 g/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. Symptoms may gradually develop over 24 hours. Severe damage may be caused by apparently trivial contact. There is the possibility of late onset corneal ulceration. Use treatment that is appropriate to chemical burns. Treatment may need to continue for several months.

Dermal contact can cause severe skin effects including blistering, dermal ulceration and full thickness burns. Symptoms develop gradually, usually 1 to 3 days after exposure. Nail damage, or total loss of the nail may occur upon direct contact. Systemic toxicity can occur from dermal exposure (e.g. through cut or abraded skin, not washing after being splashed, wearing clothes soaked in spray, carrying a leaking backpack sprayer).

SECTION 5: FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread the fire.

Specific Hazards Arising from the Product: Can decompose at high temperatures forming toxic gases, including carbon dioxide, carbon monoxide, chlorine, hydrogen chloride; possible trace amounts of phosgene, nitrogen oxides, ammonia and other toxic and noxious fumes. Technical aqueous solutions present no ignition hazards. Dried product may support combustion.

This product reacts with aluminum to produce hydrogen gas.

Hydrolyzes in alkaline media.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special Protective Equipment and Precautions for Fire-Fighters: Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential 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 run-off can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use adequate ventilation and equipment and wear clothing as described in Section 8 and/or the product label.

Environmental Precautions: Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Spillages or uncontrolled discharges into watercourses must be reported to the appropriate regulatory body.

Methods and Materials for Containment and Cleaning Up: Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or seep up material and place into a disposal container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into a compatible disposal container. On soils, small amounts will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

Deactivating Chemicals: Bentonite, Fuller's Earth.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: KEEP OUT OF REACH OF CHILDREN and UNAUTHORIZED PERSONNEL.

This product reacts with aluminum to produce hydrogen gas. Do not mix or store in containers or systems made of aluminum or having aluminum fittings.

Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours, dust or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people.

Conditions for Safe Storage, Including Any Incompatibilities: Store in original container in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Refer to the product label for specific storage recommendations, including minimum storage temperature and freeze/thaw stability. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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

Control Parameters:

Component	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS†
Paraquat dichloride (as the Paraquat ion)	0.5 mg/m³ TWA (respirable, skin; as Paraquat)	0.1 mg/m ³ TWA (respirable); 0.5 mg/m ³ TWA (total)	0.08 mg/m ³ TWA (respirable)***; 0.5 mg/m ³ TWA (total)***; 0.1 mg/m ³ TWA (total) (ON); 0.5 mg/m ³ TWA (respirable) (AB, BC, QC); 0.1 mg/m ³ TWA (respirable) (AB, BC, QC)	No	Not established
Alkyl benzenesulfonic acid, sodium salt	Not established	Not established	Not established	No	Not established
Poly(oxyethylene) nonylphenyl ether	Not established	Not established	Not established	No	Not established
Paraquat emetic	Not established	Not established	0.02 mg/m ³ TWA***	No	Not established

* Recommended by Manufacturer

** Recommended by NIOSH

*** Syngenta Occupational Exposure Limit (OEL)

**** Recommended by AIHA (American Industrial Hygiene Association)

† Material listed in Ingredient Disclosure List under the Hazardous Products Act

Appropriate Engineering Controls: If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV (threshold limit value). Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

Individual Protection Measures:

General: Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

Ingestion: Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

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

Skin: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

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 N, 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark blue/green liquid.

Formulation Type: Solution concentrate.

Physical State: Liquid.

Odour: Characteristic of pyridine bases.

Odour Threshold: Not available.

pH: 6.5 – 7.5

Melting Point: Not applicable.

Freezing Point: Approx. – 9 °C.

Initial Boiling Point and Boiling Range: Approx. 100 °C.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability (solid/gas): Not flammable as an aqueous solution. Dried product may support combustion.

Lower Explosive Limit: Not available.

Upper Explosive Limit: Not available.

Vapour Pressure: Paraquat dichloride: 7.50×10^{-8} mmHg @ 20 °C.

Vapour Density: Not available.

Relative Density: 1.084 g/cm³.

Solubility(ies): Paraquat dichloride: Miscible @ 20 °C, pH 7 (water).

Partition Coefficient (n-octanol water): Paraquat dichloride: - 4.5

Auto-Ignition Temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: < 10 mPas (or cps) @ 20 °C.

Other Information: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable under normal use and storage conditions.

Possibility of Hazardous Reactions: Hydrolyzes in alkaline media. This product reacts with aluminum to produce hydrogen gas. Corrosive in contact with metals.

Conditions to Avoid: Decomposed by alkaline media in the presence of UV light. Compound inactivated by adsorption onto inert clay.

Incompatible Materials: This product reacts with aluminum to produce hydrogen gas. Do not mix or store in containers or systems made of aluminum or having aluminum fittings.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases, including carbon dioxide, carbon monoxide, chlorine, hydrogen chloride; possible trace amounts of phosgene, nitrogen oxides, ammonia and other toxic and noxious fumes. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Dermal, inhalation, oral.

Symptoms of Acute Exposure: DANGER: Fatal if swallowed or inhaled. Prompt medical attention is required. Harmful or fatal if absorbed through the skin. Causes severe skin burns and eye injury. Mucosal irritation or nose bleeds may occur.

Potential Health Effects: Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause respiratory irritation.

Acute Toxicity/Irritation Studies (Finished Product):

Ingestion:	<u>Moderately Acutely Toxic</u> Oral (LD50 Rat)	612 mg/kg body weight
Dermal:	<u>Moderately Acutely Toxic</u> Dermal (LD50 Rat)	590 mg/kg body weight
Inhalation:	<u>Highly Acutely Toxic</u> Inhalation (LC50 Rat)	0.0006 – 0.0014 mg/L air – 4 hours (based on Paraquat ion)
Eye Contact:	<u>Severely Irritating (Rabbit)</u>	
Skin Contact:	<u>Moderately to Severely Irritating (Rabbit)</u>	
Skin Sensitization:	<u>Not a Sensitizer (Guinea Pig)</u>	

Specific Target Organ Toxicity (STOT) Single Exposure:

Paraquat dichloride: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) Repeated Exposure:

Paraquat dichloride: Causes damage to organs through prolonged or repeated exposure. Ocular effects (cataracts) have been reported following long term oral exposure of laboratory animals. Rodent studies showed signs of irritation in 21-day dermal studies. In a 2.5 year chronic study, rats showed evidence of cataracts, body weight reduction and lung effects (alveolar macrophage infiltration) at 75 ppm and above. A 90-day dog diet study showed evidence of lung effects leading to alveolar collapse and death at 3 mg/kg/day. Chronic pneumonitis was seen in a 1-year dog study at 0.93 mg/kg/day.

Carcinogenicity:

Paraquat dichloride: Did not show carcinogenic effects in animal experiments.

Reproductive Toxicity:

Paraquat dichloride: Did not show reproductive toxicity or teratogenicity in animal experiments.

Mutagenicity:

Paraquat dichloride: Did not show mutagenic effects in animal experiments.

Aspiration Hazard:

Paraquat dichloride: Not classified as an aspiration hazard.

Other Toxicity Information:

Paraquat dichloride: Inhalation is an unlikely route of exposure due to low vapour pressure and large spray droplet size. Occupational exposure to Paraquat does not pose any health issues as long as normal hygiene practices are followed. Paraquat has a history of use in suicides; although difficult to quantify, it is estimated that 25 mL of Paraquat (approx. 25% Paraquat dichloride) by oral ingestion is sufficient to cause death. Two types of deaths can be identified: acute fulminate poisoning leading to multi-organ failure in a few days, and a more protracted form resulting in kidney failure and pulmonary fibrosis. Treatment is available and successful, providing the quantity of product ingested is low and the time to treatment is short.

Toxicity of Other Components:

The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the “other components” in the formulation.

Alkyl benzenesulfonic acid, sodium salts:	Harmful if swallowed. Causes serious eye damage. Causes skin irritation.
Poly(oxyethylene) nonylphenyl ether:	Suspected of damaging fertility or the unborn child. Harmful if swallowed. Causes skin irritation and serious eye irritation.
Paraquat emetic:	Toxic if swallowed. Slightly irritating to skin and eyes. Inhalation of dust may cause nausea and vomiting.

SECTION 12: ECOLOGICAL INFORMATION
Eco-Acute Toxicity:

Paraquat dichloride:	
Invertebrates (Water Flea) 48-hour LC ₅₀ /EC ₅₀	1.2 ppm
Fish (Rainbow Trout) 96-hour LC ₅₀ /EC ₅₀	55 ppm
Birds (8-day dietary – Mallard Duck) LC ₅₀ /EC ₅₀	4,048 ppm

Persistence & Degradability:

Paraquat dichloride: Persistent in soil. Persistent in water; partitions to sediment.

Bioaccumulation Potential:

Paraquat dichloride: BCF < 500; does not bioaccumulate.

Mobility in Soil:

Paraquat dichloride: Low mobility in soil.

Other Adverse Effects: Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Information: Do not reuse containers unless they are specifically designed to be refillable. Empty container retains product residue. Dispose of empty containers in accordance with local regulations. Consult provincial environment ministry for advice on waste disposal. Industrial/commercial waste may be handled at licensed facilities only. Waste shipments must be securely packaged and properly labelled. Only licensed carriers may be used, and proper documents must accompany the shipment.

SECTION 14: TRANSPORT INFORMATION**TDG Classification – Road/Rail:**

Regulated.

Land Transport (TDG):

UN Number: UN 2922
Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Paraquat Dichloride).
Transport Hazard Class: 8, (6.1)
Packing Group: PG III
Environmental Hazards: Corrosive, environmentally hazardous.

Water Transport – International (IMDG):

UN Number: UN 2922
Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Paraquat Dichloride), Marine Pollutant.
Transport Hazard Class: 8, (6.1)
Packing Group: PG III
Environmental Hazards: Corrosive, marine pollutant.

Air Transport (IATA-DGR):

UN Number: UN 2922
Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Paraquat Dichloride).
Transport Hazard Class: 8, (6.1)
Packing Group: PG III
Environmental Hazards: Corrosive, environmentally hazardous.

Special Precautions for User:

Not applicable.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

SECTION 15: REGULATORY INFORMATION**Hazardous Products Act Information:**

This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

Hazardous Products Act Information: WHMIS 2015 Classification

This product is exempt under WHMIS 2015.

Pest Control Products (PCP) Act Registration No.: 8661

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Read the approved PCPA label prior to using or handling this pest control product.

SECTION 16: OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Syngenta will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant MSDS. Hazardous properties of all ingredients have been considered in the preparation of this SDS. Read the entire SDS for the complete hazard evaluation of this product.

Full Text of Abbreviations:

AB – Province of Alberta

BC – Province of British Columbia

BCF – Bioconcentration factor

EC₅₀ – Effective concentration, 50%

GHS – Globally Harmonized System of Classification and Labeling of Chemicals

LC₅₀ – Lethal concentration, 50%

LD₅₀ – Lethal dose, 50%

IARC – International Agency for Research on Cancer

IATA-DGR – International Air Transport Association Dangerous Goods Regulations

IMDG – International Maritime Code for Dangerous Goods

NTP – National Toxicology Program

ON – Province of Ontario

OSHA – Occupational Safety & Health Administration

PEL – Permissible Exposure Limit

TDG – Transportation of Dangerous Goods

TLV – Threshold Limit Value

QC – Province of Quebec

SDS – Safety Data Sheet

WHMIS – Workplace Hazardous Materials Information System

Changes since last revision: Updated Paraquat Poisoning booklet title to 'Paraquat Poisoning: A Practical Guide to Diagnosis, First Aid and Medical Management' and updated hyperlink to <http://www4.syngenta.com/what-we-do/crops-and-products/paraquat-safety>; fixed spelling errors.

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END OF SAFETY DATA SHEET.