

Safety Data Sheet

Issue Date: 24-May-2013 Revision Date: 03-Mar-2017 Version 3

1. IDENTIFICATION

Product Identifier

Product Name Parazone 3SL

Other means of identification

SDS # MANA-006

Registration Number(s) EPA Reg. No. 66222-130

UN/ID No UN2922

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. 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.

Appearance Dark green liquid

Physical State Liquid

Odor Strong Pungent

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 1
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

Signal Word Danger

Hazard Statements

Toxic if swallowed

Fatal if inhaled

Causes severe skin burns and eye damage

May cause respiratory irritation. May cause drowsiness or dizziness Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection

Precautionary Statements - Response

Immediately call a poison center or doctor/physician

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 or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Call a poison center or doctor/physician if you feel unwell

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Do not induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Paraquat	1910-42-5	42.49 - 45.11

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

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 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

poison center or doctor/physician.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before reuse. Call a poison center or

doctor/physician if you feel unwell.

Inhalation If inhaled remove to fresh air. Give oxygen if breathing is difficult. If breathing has stopped,

call 911, give artificial respiration. Immediately call a physician.

Ingestion Immediately call a poison center or doctor/physician. DO NOT induce vomiting. If

conscious, drink 8-10 oz. of water promptly. Never give anything by mouth to an

unconscious person. Obtain medical attention. Do not induce vomiting unless directed by

medical personnel.

Most important symptoms and effects

Symptoms Causes severe skin burns and eye damage. Will irritate mucous membranes. May cause

drowsiness or dizziness. May cause skin redness, irritation or swelling. Ingestion may

cause severe burns to mouth, throat or stomach.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Consider: gastric lavage with protected airway, administration of

activated charcoal.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2). Foam or dry chemical systems are preferred to prevent environmental damage from excessive water runoff.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Toxic fumes may be given off when material is exposed to fire.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Chlorine gas. Hydrogen chloride. Traces of phosgene upon pyrolysis. Nitrogen oxides (NOx). Ammonia. Combustion may release noxious or toxic vapors.

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. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. 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 For small spills, absorb with sand, clay, or other inert absorbent. Place in appropriate

containers for disposal. For large spills: recover free product. Dike for later disposal. Absorb

with inert material, and then place in suitable container for chemical waste.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area.

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. Store away from incompatible materials. Protect from excessive heat. Store locked up. Keep/store only in original container. Do not transport or store below 0 C/ $\,$

32 F.

Incompatible Materials 10% permanganate solutions and iron powder.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Paraquat	-	TWA: 0.5 mg/m³ respirable dust	IDLH: 1 mg/m ³
1910-42-5		(vacated) TWA: 0.1 mg/m³ respirable dust Paraquat (vacated) S* Paraquat S*	TWA: 0.1 mg/m³ respirable dust

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.

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Individual protection measures, such as personal protective equipment

Eve/Face Protection Use splash goggles or face shield when contact may occur.

Skin and Body Protection Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Viton or other impervious gloves are required. Long sleeve shirt, trousers, and

safety shoes.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Wear an appropriate

NIOSH/MSHA approved respirator if ventilation is inadequate.

General Hygiene Considerations Wash hands before eating, drinking, smoking and using the toilet. Remove contaminated

clothing promptly and wash thoroughly before reused. 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 Liquid

Appearance Dark green liquid Odor Strong Pungent Color Dark green **Odor Threshold** Not determined

Remarks • Method Property Values

3.0 - 4.0 Ha

Melting Point/Freezing Point Not determined **Boiling Point/Boiling Range** Not determined Flash Point > 100 °C / > 212 °F **Evaporation Rate** Not determined Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not applicable

Lower Flammability Limit Not applicable **Vapor Pressure** Not determined **Vapor Density** Not determined **Specific Gravity** Not determined Water Solubility Miscible in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** >625 °C / 1157 °F **Decomposition Temperature** Not determined

Kinematic Viscosity Not determined **Dynamic Viscosity** 3.65 @ 20° C; 2.44 @ 40° C

centistokes

Explosive Properties Not determined **Oxidizing Properties** Not determined **Bulk Density** 1.135 lb/gal

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 Not known to occur.

Conditions to Avoid

Elevated temperatures. Avoid temperatures below 0° C/32° F.

Incompatible Materials

10% permanganate solutions and iron powder.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2). Chlorine gas. Hydrogen chloride. Traces of phosgene upon pyrolysis. Nitrogen oxides (NOx). Ammonia. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Fatal if inhaled.

Ingestion Toxic if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Paraquat	= 57 mg/kg (Rat)	= 80 mg/kg (Rat) = 325 mg/kg (-
1910-42-5		Rabbit)	

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Not classifiable as a human carcinogen.

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Product Information (Numerical measures of toxicity)

Acute Oral LD50 (Rat): 238 mg/kg

Acute Dermal LD50 (Rabbit): >2,000 mg/kg Acute Inhalation LC50 (Rat): >0.0006 mg/L (4-hr)

Eye Irritation: Moderately irritating. **Dermal Irritation**: Slightly irritating.

Dermal Sensitization: Not a contact sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. This product is toxic to wildlife. Do not apply directly to water, or 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 wash waters. Parazone 3SL is a contact herbicide that desiccates all green plant tissue. Paraquat dichloride, the active ingredient in this product, is toxic to non-target crops and plants if off-target movement occurs because it desiccates all green plant tissue. Extreme care must be taken to ensure that off-target drift is minimized to the greatest extent possible. Refer to the local and state laws, regulations, guidelines, and spray drift information contained in the "Directions for Use" section of the product labeling for proper application to avoid off-target movement. Do not apply under conditions involving possible drift to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use, or consumption. Do not apply when weather conditions favor drift from treated areas. To avoid drift, do not make aerial applications during periods of thermal inversion.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Paraquat		15: 96 h Cyprinus carpio	EC50 = 967 mg/L 5 min	9.1 - 12.2: 48 h Daphnia
1910-42-5		mg/L LC50 static 8.5 - 19: 96		magna mg/L EC50 Static
		h Lepomis macrochirus mg/L		
		LC50 static 11.0 - 19.0: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL

RECOMMENDATIONS. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse 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 Hazardous Waste representative at the nearest EPA regional office. Never place any unused product down an indoor or outdoor drain. Do not

contaminate water, food or feed by disposal.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN2922

Proper Shipping Name Corrosive liquids, toxic, n.o.s. (Paraquat dichloride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

IATA

UN/ID No UN2922

Proper Shipping Name Corrosive liquids, toxic, n.o.s. (Paraquat dichloride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

IMDG

UN/ID No UN2922

Proper Shipping Name Corrosive liquids, toxic, n.o.s. (Paraquat dichloride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Paraquat		10 lb.	
1910-42-5			

SARA 311/312 Hazard Categories

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

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Paraquat - 1910-42-5	1910-42-5	42.49 - 45.11	1.0

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Paraquat	X	X	X
1910-42-5			

EPA Pesticide Registration Number 66222-130

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: Danger

May be fatal if swallowed Fatal if inhaled Do not breathe spray mist Wear a dust/mist respirator as specified in the PPE section of this label Causes irreversible eye damage Wear protective eyewear Harmful if absorbed through skin Do not get in eyes or on clothing Avoid contact with skin IMPORTANT Inhalation is an unlikely route of exposure due to low vapor pressure and large spray droplet size but mucosal irritation or nose bleeds may occur Prolonged contact with this concentrated product can irritate your skin

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Danger	Danger
Acute toxicity - Oral	May be fatal if swallowed	Toxic if swallowed
Acute toxicity - Dermal	Harmful if absorbed through skin	N/A
Acute toxicity - Inhalation (Dusts/Mists)	Fatal if inhaled	Fatal if inhaled
Skin corrosion/irritation	Prolonged contact can irritate skin	Causes severe skin burns
Serious eye damage/eye irritation	Causes irreversible eye	
Serious eye damage/eye imation	damage	Causes severe eye damage
STOT, single evaceure	NA. cool invitation on	May cause respiratory
STOT - single exposure	Mucosal irritation or nose bleeds may occur	irritation. May cause drowsiness or dizziness
		Causes damage to organs
STOT - repeated exposure		through prolonged or
	N/A	repeated exposure

16. OTHER INFORMATION

NFPA Health Hazards Flammability Instability Special Hazards

4 0 None

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HMIS Health Hazards Flammability Physical Hazards Personal Protection

See section 8

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Revision Note: Updated Section 14 based on audit findings on 27-Feb-2017

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