

SAFETY DATA SHEET

Issue Date 18-May-2025 Revision Date 18-May-2025 Version 1

1. IDENTIFICATION

Product identifier

Product Name Sharda Endothall 28.6% + Diquat 10.6% SL ABN: Amphibian SL Herbicide

Other means of identification

 Product Code
 83529-311

 UN/ID no
 UN2902

 Synonyms
 None

 Registration Number(s)
 83529-311

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Sharda USA LLC P.O. Box 640

Hockessin, DE 19707

Website: www.shardausa.com

Emergency telephone number

Company Phone Number 610-350-6930 (US)

+91 22 5678 2800 (India)

Emergency Telephone CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887

POISON CONTROL CENTER: 800-222-1222

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is considered nazardods by the 2012 Ooh A hazard Comin	idilication Standard (29 Of 10 1910.1200)
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Toxic if swallowed Harmful if inhaled

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Causes damage to organs through prolonged or repeated exposure



Appearance Liquid Physical state liquid Odor None

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

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: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

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

Call a POISON CENTER or doctor/physician if you feel unwell

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

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Name	CAS No	Weight-%
Other ingredients *	Proprietary	30 - 60
Endothal-potassium	2164-07-0	28.6
Diquat dibromide	85-00-7	10.6
Ethylene alycol *	107-21-1	1 - 5

SL ABN: Amphibian SL Herbicide

*The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice Call a poison control center or doctor for treatment advice. Have the product containers 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. Call a poison control

center or doctor for treatment advice.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician. Call a poison control center or doctor for treatment advice.

Inhalation Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately. Call a poison control center or

doctor for treatment advice.

Ingestion Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not

induce vomiting without medical advice. Never give anything by mouth to an unconscious

person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation. May cause redness and tearing of the eyes. May result in

permanent damage including blindness. Coughing and/ or wheezing. May cause allergic

skin reaction.

Indication of any immediate medical attention and special treatment needed

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed. If in eyes, treat symptomatically. Symptoms may develop gradually. Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervision should be

continued until healing is complete.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Hydrogen chloride.

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Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

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. Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

of spill/leak.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up

and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not eat, drink or smoke when using this product. Do not breathe

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep away from food, drink and animal feeding stuffs. Keep in properly labeled

containers.

Packaging materials Do not reuse container.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL/IDLH
Diquat dibromide	TWA: 0.5 mg/m ³ inhalable fraction	TWA: 0.5 mg/m³ (vacated)	TWA: 0.5 mg/m ³
85-00-7	TWA: 0.1 mg/m ³ respirable fraction		_
	Skin*		
Ethylene glycol	TWA: 25 ppm (vapor fraction)	-	-
107-21-1	STEL: 50 ppm (vapor fraction)		

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NIOSH REL/IDLH Recommended Exposure Limit/Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. And. Showers. Eyewash

stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or

boots.

Respiratory protection Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded

or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated

clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid
Appearance Liquid Odor None

Color yellow brown Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No information available

pH 7.42 solution (1 %)

Melting point / freezing point

No information available

Boiling point / boiling rangeNo information availableFlash point> 100 °C / > 212 °FSeta Closed Cup

Evaporation rate
No information available
Flammability (solid, gas)
No information available

Flammability Limit in Air
Upper flammability limit:
No information available

Vapor pressure ~18 mmHg @ 25 °C

Vapor density

No information available

Relative density 1.2563 g/mL Water solubility dispersible

Lower flammability limit:

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

Kinematic viscosity > 100 mm2/s @ 40 °C

Dynamic viscosity No information available

Explosive propertiesNot an explosive
Oxidizing properties
Not applicable

Other Information

Softening point No information available

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Molecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Elevated Temperature. Storage near to reactive materials.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract. Harmful by inhalation.

Eye contact Corrosive to the eyes and may cause severe damage including blindness.

Skin contact May cause irritation. May cause sensitization by skin contact.

Ingestion Toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Endothal-potassium	= 38 mg/kg (Rat)	> 1 g/kg (Rat)> 2000 mg/kg (= 1.85 mg/L (Rat) 4 h
2164-07-0		Rat)	
Diquat dibromide	= 120 mg/kg (Rat) = 214 mg/kg (= 433 mg/kg (Rat)	-
85-00-7	Rat)		
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530	
107-21-1		μL/kg (Rabbit)	

Information on toxicological effects

Symptoms May cause skin irritation. May cause redness and tearing of the eyes. May result in

permanent damage including blindness. Coughing and/ or wheezing. May cause an allergic

skin reaction.

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

Sensitization May cause sensitization by skin contact.

Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation.

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

Chronic toxicity May cause adverse liver effects.

Target Organ Effects Central nervous system, Eyes, kidney, liver, Respiratory system, Skin.

Based on available data, the classification criteria are not met.

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Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document ...

 ATEmix (oral)
 93.28 mg/kg

 ATEmix (dermal)
 >2000 mg/kg

 ATEmix (inhalation-dust/mist)
 >0.52 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aspiration hazard

Toxic to aquatic life with long lasting effects

This pesticide is toxic to mammals, fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Diquat dibromide	96-hr EC50 (Selenastrum	96-hr LC50 (Rainbow Trout) = 21	48-hr EC50 (Daphnia magna) = 1.2
85-00-7	capricornutum) = 0.011 mg/L	mg/L	mg/L
		96-hr LC50 (Mirror Carp) = 67 mg/L	_
Ethylene glycol	6500 - 13000: 96 h	41000: 96 h Oncorhynchus mykiss	46300: 48 h Daphnia magna mg/L
107-21-1	Pseudokirchneriella subcapitata	mg/L LC50 14 - 18: 96 h	EC50
	mg/L EC50	Oncorhynchus mykiss mL/L LC50	
		static 40000 - 60000: 96 h	
		Pimephales promelas mg/L LC50	
		static 27540: 96 h Lepomis	
		macrochirus mg/L LC50 static	
		40761: 96 h Oncorhynchus mykiss	
		mg/L LC50 static 16000: 96 h	
		Poecilia reticulata mg/L LC50 static	

Persistence and degradability

Not readily biodegradable.

Bioaccumulation

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Diquat dibromide 85-00-7	-4.6
Ethylene glycol 107-21-1	-1.93

Other adverse effects

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesPesticide wastes may be acutely hazardous. Improper disposal is a violation of federal

law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on

proper disposal of waste product.

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

regulations. Consult product label for additional information. Do not reuse container.

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Endothal-potassium 2164-07-0	P088	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Endothal-potassium	-	P088	-	-
2164-07-0				

14. TRANSPORT INFORMATION

DOT

UN/ID no UN2902

Proper shipping name Pesticides, liquid, toxic, n.o.s.

Hazard Class 6.1
Packing Group

Special Provisions IB3, T7, TP2, TP28

Description UN2902, Pesticides, liquid, toxic, n.o.s. (Endothal-potassium), 6.1, III

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TDG

UN/ID no UN2902

Proper shipping name Pesticide, liquid, toxic, n.o.s.

Hazard Class 6.1 Packing Group III

Description UN2902, Pesticide, liquid, toxic, n.o.s. (Endothal-potassium), 6.1, III

<u>IATA</u>

UN/ID no UN2902

Proper shipping name Pesticide, liquid, toxic, n.o.s.

Hazard Class 6.1
Packing Group III
ERG Code 6L
Special Provisions A3, A4

Description UN2902, Pesticide, liquid, toxic, n.o.s. (Endothal-potassium), 6.1, III

IMDG

UN/ID no UN2902

Proper shipping name Pesticide, liquid, toxic, n.o.s.

Hazard Class 6.1
Packing Group III
EmS-No F-A, S-A
Special Provisions 61, 223, 274

Description UN2902, Pesticide, liquid, toxic, n.o.s. (Endothal-potassium), 6.1, III

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

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Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	1.0
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

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diquat dibromide 85-00-7	-	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Endothal-potassium	1000 lb	-	RQ 1000 lb final RQ
2164-07-0			RQ 454 kg final RQ
Diquat dibromide	1000 lb	-	RQ 1000 lb final RQ
85-00-7			RQ 454 kg final RQ
Ethylene glycol	5000 lb	-	RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ

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
Endothal-potassium 2164-07-0	X	X	Х
Diquat dibromide 85-00-7	X	X	Х
Ethylene glycol 107-21-1	X	X	Х

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U.S. EPA Label Information

EPA Pesticide Registration Number 83529-311

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:

Difference between SDS and EPA Pesticide label

DANGER: Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. DO NOT get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Human flagging is prohibited.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

Properties - HMIS Health hazards 3^\star Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard

Issue Date18-May-2025Revision Date18-May-2025

Revision Note

No information available

Disclaimer

The information provided in this Material 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 a 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