

# SAFETY DATA SHEET

Issue Date 06-Aug-2025 Revision Date 06-Aug-2025 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Sharda Endothall 52.1% SL ABN: Shaolin Flo 191

Other means of identification

 Product Code
 83529-216

 UN/ID no
 UN2902

 Synonyms
 None

 Registration Number(s)
 83529-216

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) CHEMTREC: 800-424-9300

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)

Acute toxicity - Oral	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3

### Label elements

### **Emergency Overview**

#### Danger

#### Hazard statements

Toxic if swallowed Causes skin irritation Causes serious eye damage May damage fertility or the unborn child May cause respiratory irritation

ABN:



Appearance Liquid Physical state liquid Odor Slight Amine

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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

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

Rinse mouth

### **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

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

May be harmful in contact with skin.

# **Unknown acute toxicity**

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

# <u>Mixture</u>

Chemical Name	CAS No	Weight-%
Endothall, amine salt	66330-88-9	53.1
Other ingredients *	Proprietary	15 - 40

1-Methyl-2-pyrrolidone *	872-50-4	3 - 7
Ethylene glycol *	107-21-1	3 - 7

<sup>\*</sup>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 contact** Wash 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 redness and tearing of the eyes. May result in permanent damage including

blindness. Coughing and/ or wheezing. May cause skin irritation.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

Measures against circulatory shock, respiratory depression, and convulsion may be needed. Probable mucosal damage may contraindicate the use of gastric lavage.

# 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.

Explosion data

Sensitivity to Mechanical Impact None.

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Sensitivity to Static Discharge

### 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

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

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

of spill/leak.

Use personal protection recommended in Section 8. Ventilate the area. For emergency responders

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

Use personal protective equipment as required. Wash contaminated clothing before reuse. Advice on 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
Ethylene glycol	TWA: 25 ppm (vapor fraction)	-	-
107-21-1	STEL: 50 ppm (vapor fraction)		

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.

ABN:

# 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

@ 40 °C

clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical stateliquidAppearanceLiquidOdorSlight Amine

**Color** yellow brown **Odor threshold** No information available

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

pH 7.30 solution (1 %)

Melting point / freezing point No information available

Boiling point / boiling range
No information available
No information available
No information available

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

Flammability Limit in Air

Upper flammability limit: No information available
Lower flammability limit: No information available

Vapor pressure $\sim$ 18 mmHg@ 25 °C

Vapor density

No information available
Relative density

1.04 g/mL

Water solubility dispersible

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

Kinematic viscosity > 80 mm2/s

Dynamic viscosity

Explosive properties

Not an explosive

Oxidizing properties Not applicable

# **Other Information**

Softening point
Molecular weight
VOC Content (%)
Density
No information available

ABN:

# 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.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract.

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

**Skin contact** Irritating to skin.

**Ingestion** Toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Endothall, amine salt 66330-88-9	= 38 mg/kg (Rat)	> 1 g/kg (Rat)> 2000 mg/kg ( Rat)	= 1.85 mg/L (Rat)4 h
Other ingredients	> 90 mL/kg (Rat)	-	-
1-Methyl-2-pyrrolidone 872-50-4	= 3914 mg/kg ( Rat )	= 8 g/kg (Rabbit)	> 5.1 mg/L (Rat)4 h
Ethylene glycol 107-21-1	= 4700 mg/kg ( Rat )	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	-

### Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. May result in permanent damage including

blindness. Coughing and/ or wheezing. May cause skin irritation.

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

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

Reproductive toxicity Contains a known or suspected reproductive toxin.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure**Causes 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.

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

**Shaolin Flo 191** 

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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)
 184.00 mg/kg

 ATEmix (dermal)
 2,040.00

 ATEmix (inhalation-dust/mist)
 85.09 mg/l

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

May cause long lasting harmful effects to aquatic life

Chemical Name	Algae/aquatic plants	Fish	Crustacea
1-Methyl-2-pyrrolidone	500: 72 h Desmodesmus	832: 96 h Lepomis macrochirus	4897: 48 h Daphnia magna mg/L
872-50-4	subspicatus mg/L EC50	mg/L LC50 static 1072: 96 h	EC50
		Pimephales promelas mg/L LC50	
		static 1400: 96 h Poecilia reticulata	
		mg/L LC50 static 4000: 96 h	
		Leuciscus idus mg/L LC50 static	
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
1-Methyl-2-pyrrolidone 872-50-4	-0.46
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 wastes**Pesticide 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.

US EPA Waste Number P088

# 14. TRANSPORT INFORMATION

DOT

UN2902

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

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Hazard Class 6.1
Packing Group

Special Provisions IB3, T7, TP2, TP28

**Description** UN2902, Pesticides, liquid, toxic, n.o.s. (Endothall), 6.1, III

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Number

**TDG** 

UN2902

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

Hazard Class 6.1 Packing Group

**Description** UN2902, Pesticide, liquid, toxic, n.o.s. (Endothall), 6.1, III

IATA

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. (Endothall), 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. (Endothall), 6.1, III

# 15. REGULATORY INFORMATION

**International Inventories** 

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

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 %
1-Methyl-2-pyrrolidone - 872-50-4	1.0
Ethylene glycol - 107-21-1	1.0

### SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **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)
Endothall, amine salt	1000 lb	-	RQ 1000 lb final RQ
66330-88-9			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 contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
1-Methyl-2-pyrrolidone - 872-50-4	Developmental

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Endothall, amine salt 66330-88-9	X	X	X
Other ingredients	-	-	X
1-Methyl-2-pyrrolidone 872-50-4	X	X	X
Ethylene glycol 107-21-1	X	X	X

### U.S. EPA Label Information

#### **EPA Pesticide Registration Number** 83529-216

# **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: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

# 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\* Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard

 Issue Date
 06-Aug-2025

 Revision Date
 06-Aug-2025

**Revision Note** 

No information available

Procedure used to derive the classification

Justification - Calculation method

#### **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**