

# SAFETY DATA SHEET

Issue Date 11-Jun-2022 Revision Date 11-Jun-2022 Version 1

### 1. IDENTIFICATION

Product identifier

Product Name Sharda 2,4-D 20.9% + Picloram 5.4% SL ABN: Moon

Other means of identification

 Product Code
 83529-190

 Synonyms
 None

 Registration Number(s)
 83529-190

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide
Uses advised against Consumer use

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)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1B
Flammable liquids	Category 4

#### Label elements

# **Emergency Overview**

### Warning

### **Hazard statements**

Harmful if swallowed Causes eye irritation May cause an allergic skin reaction Combustible liquid



Appearance clear liquid Physical state liquid Odor Pungent

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

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

Do not eat, drink or smoke when using this product

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

Contaminated work clothing should not be allowed out of the workplace

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

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

Wash contaminated clothing before reuse

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

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **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.

#### 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
2,4-D Triisopropanolamine salt	18584-79-7	20.9
Ethylene glycol *	107-21-1	7 - 13
Isopropyl alcohol *	67-63-0	5 - 10
Picloram triisopropanolamine salt	6753-47-5	5.4

<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. Repeated contact may cause allergic reactions

in very susceptible persons.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Contains ethylene glycol. Treat symptomatically.

# 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. Nitrogen oxides (NOx). Hydrogen chloride.

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

**Advice on safe handling**Use personal protective equipment as required. Wash contaminated clothing before reuse.

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)		
Isopropyl alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
			TWA: 980 mg/m <sup>3</sup>
			STEL: 500 ppm
			STEL: 1225 mg/m <sup>3</sup>
Picloram triisopropanolamine salt	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	-
6753-47-5		TWA: 5 mg/m <sup>3</sup> respirable fraction	

NIOSH IDLH 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

Seta Closed Cup

clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid
Appearance clear liquid Odor Pungent

Color light yellow Odor threshold No information available

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

**pH** 6 - 7 solution (1 %)

Melting point / freezing point

Boiling point / boiling range

No information available
No information available

Flash point / boiling range No information available 85 °C / 185 °F

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

Flammability Limit in Air
Upper flammability limit:

No information available

@ 20 °C

Lower flammability limit: No information available

Vapor pressure ~18 mmHg

Vapor density No information available

**Relative density** 1.0784 g/mL **Water solubility** Soluble in water

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** Not an explosive **Oxidizing properties** Not applicable

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density
Bulk density
No 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. Nitrogen oxides (NOx). Hydrogen chloride.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

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

**Eye contact** Irritating to eyes.

**Skin contact** Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Other ingredients	> 90 mL/kg ( Rat )	-	-
Ethylene glycol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	$= 72600 \text{ mg/m}^3 \text{ (Rat) 4 h}$
Picloram triisopropanolamine salt 6753-47-5	= 8200 mg/kg (Rat)	> 4000 mg/kg ( Rabbit )	-

#### Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. Repeated or prolonged contact may cause

allergic reactions in very susceptible persons.

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

**Sensitization** Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met. **Carcinogenicity**Based on available data, the classification criteria are not met.

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Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	-	Х
Picloram triisopropanolamine salt 6753-47-5	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity**STOT - single exposure
STOT - repeated exposure
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

**Chronic toxicity** May cause adverse liver effects.

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

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

#### Numerical measures of toxicity - Product Information

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

 ATEmix (oral)
 >1,511.00 mg/kg

 ATEmix (dermal)
 >32,539.00 mg/kg

 ATEmix (inhalation-dust/mist)
 >1,037.10 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

This product is toxic to 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. Do not contaminate water when disposing of equipment washwaters.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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	
Isopropyl alcohol	1000: 96 h Desmodesmus	11130: 96 h Pimephales promelas	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	mg/L LC50 static 9640: 96 h	EC50
	Desmodesmus subspicatus mg/L	Pimephales promelas mg/L LC50	
	EC50	flow-through 1400000: 96 h	
		Lepomis macrochirus µg/L LC50	
Picloram triisopropanolamine salt	-	55.3: 96 h Pimephales promelas	59 - 97: 48 h Daphnia magna mg/L
6753-47-5		mg/L LC50 static 4.0: 96 h	EC50 Static
		Oncorhynchus mykiss mg/L LC50	

#### Persistence and degradability

Not readily biodegradable.

### **Bioaccumulation**

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Ethylene glycol 107-21-1	-1.93
Isopropyl alcohol 67-63-0	0.05

# 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**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.

# 14. TRANSPORT INFORMATION

**DOT** Not Regulated (Single Container < RQ)

This product is regulated by US DOT when shipped in single containers with a net weight of greater than 478 lbs. but less than or equal to 1070 lbs. (119 gallons or less) with the following description: RQ; UN3082; Environmentally Hazardous Substance, Liquid, NOS

(2,4-D triisopropanolamine salt); 9; III

For bulk containers (>119 gallons or 450 L), this product is regulated as NA1993; Combustible liquid, NOS (Isopropyl alcohol); Combustible liquid; III; RQ (2,4-D

triisopropanolamine salt)

TDG Not regulated

**IATA** 

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

Special Provisions A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D triisopropanolamine

salt), 9, III

<u>IMDG</u>

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class9Packing GroupIIIEmS-NoF-A, S-FSpecial Provisions274, 335, 969

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D triisopropanolamine

salt), 9, III; Marine pollutant

# 15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies

KECLCompliesPICCSCompliesAICSComplies

# 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	
Isopropyl alcohol - 67-63-0	1.0	
Picloram triisopropanolamine salt - 6753-47-5	1.0	

### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **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)
2,4-D Triisopropanolamine salt	100 lb	-	RQ 100 lb final RQ
18584-79-7			RQ 45.4 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
Other ingredients	-	-	X
Ethylene glycol	X	X	X
107-21-1			
Isopropyl alcohol	X	X	X
67-63-0			
Picloram triisopropanolamine salt	X	X	X
6753-47-5			

### U.S. EPA Label Information

**EPA Pesticide Registration Number** 83529-190

#### **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

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

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

NFPA Health hazards 2 Flammability 2 Instability 0 Physical and Chemical

Properties HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection X

Issue Date 11-Jun-2022 Revision Date 11-Jun-2022

**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** 

11Jun2022