

Issue Date 19-Mar-2022

Revision Date 19-Mar-2022

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Sharda 2,4-D 39.6% + Picloram 10.2% WSL ABN: Pastisha

### Other means of identification

**Product Code** 83529-127  
**Synonyms** None  
**Registration Number(s)** 83529-127

### 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)

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2B |
|-----------------------------------|-------------|

### Label elements

#### **Warning**

**Hazard statements**  
 Causes eye irritation

#### **Emergency Overview**

**Appearance** clear liquid

**Physical state** liquid

**Odor** Characteristic

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

Wash face, hands and any exposed skin thoroughly after handling

#### **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

### Hazards not otherwise classified (HNOC)

Not applicable

**Other Information**

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

**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 | 50.2     |
| 2,4-D Triisopropanolamine salt    | 18584-79-7  | 39.6     |
| Picloram triisopropanolamine salt | 6753-47-5   | 10.2     |

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**

|   |  |
|---|--|
| <b>General advice</b>                     | 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.   |
| <b>Eye contact</b>                        | 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.                                  |
| <b>Skin contact</b>                       | 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. |
| <b>Inhalation</b>                         | 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.                                     |
| <b>Ingestion</b>                          | 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.  |
| <b>Self-protection of the first aider</b> | 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**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | 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**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, CO<sub>2</sub>, 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.

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

**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 IDLH |
|--|---------------------------|--|------------|
| Picloram triisopropanolamine salt<br>6753-47-5 | TWA: 10 mg/m <sup>3</sup> | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction | -          |

**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**

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin and body protection</b>       | Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or boots.   |
| <b>Respiratory protection</b>         | 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. |
| <b>General Hygiene Considerations</b> | 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**

|                                       |                          |                         |                          |
|---------------------------------------|--------------------------|-------------------------|--------------------------|
| <b>Physical state</b>                 | liquid                   | <b>Odor</b>             | Characteristic           |
| <b>Appearance</b>                     | clear liquid             | <b>Odor threshold</b>   | No information available |
| <b>Color</b>                          | brown                    |                         |                          |
| <b>Property</b>                       | <b>Values</b>            | <b>Remarks • Method</b> |                          |
| <b>pH</b>                             | 7.48                     | solution (1 %)          |                          |
| <b>Melting point / freezing point</b> | No information available |                         |                          |
| <b>Boiling point / boiling range</b>  | No information available |                         |                          |
| <b>Flash point</b>                    | > 100 °C / > 212 °F      | Seta Closed Cup         |                          |
| <b>Evaporation rate</b>               | No information available |                         |                          |
| <b>Flammability (solid, gas)</b>      | No information available |                         |                          |
| <b>Flammability Limit in Air</b>      |                          |                         |                          |
| <b>Upper flammability limit:</b>      | No information available |                         |                          |
| <b>Lower flammability limit:</b>      | No information available |                         |                          |
| <b>Vapor pressure</b>                 | ~0 mmHg                  | @ 20 °C                 |                          |
| <b>Vapor density</b>                  | No information available |                         |                          |
| <b>Relative density</b>               | 1.1562 g/mL              |                         |                          |
| <b>Water solubility</b>               | dispersible              |                         |                          |
| <b>Solubility in other solvents</b>   | No information available |                         |                          |
| <b>Partition coefficient</b>          | No information available |                         |                          |
| <b>Autoignition temperature</b>       | No information available |                         |                          |
| <b>Decomposition temperature</b>      | No information available |                         |                          |
| <b>Kinematic viscosity</b>            | No information available |                         |                          |
| <b>Dynamic viscosity</b>              | No information available |                         |                          |
| <b>Explosive properties</b>           | Not an explosive         |                         |                          |
| <b>Oxidizing properties</b>           | Not applicable           |                         |                          |
| <b>Other Information</b>              |                          |                         |                          |
| <b>Softening point</b>                | No information available |                         |                          |
| <b>Molecular weight</b>               | No information available |                         |                          |
| <b>VOC Content (%)</b>                | No information available |                         |                          |
| <b>Density</b>                        | No information available |                         |                          |
| <b>Bulk density</b>                   | 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**

Acute Oral LD50 (rat): >5000 mg/kg  
 Acute Dermal LD50 (rabbit): > 2000 mg/kg  
 Eye Irritation (rabbit): Slight irritant.  
 Skin Irritation (rabbit): Not an irritant.  
 Inhalation LC50 (rat): >5.423 mg/L (4 HR)  
 Skin Sensitization (guinea pig): Not a sensitizer

**Inhalation**

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

**Eye contact**

Irritating to eyes.

**Skin contact**

Based on available data, the classification criteria are not met. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

**Ingestion**

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

| Chemical Name                                  | Oral LD50            | Dermal LD50             | Inhalation LC50 |
|--|----------------------|-------------------------|-----------------|
| Other ingredients                              | > 90 mL/kg ( Rat )   | -                       | -               |
| 2,4-D Triisopropanolamine salt<br>18584-79-7   | = 625 mg/kg ( Rat )  | = 2115 mg/kg ( Rabbit ) | -               |
| Picloram triisopropanolamine salt<br>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**

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

| Chemical Name                               | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| Picloram triisopropanolamine salt 6753-47-5 | -     | Group 3 | -   | -    |

***IARC (International Agency for Research on Cancer)****Group 3 - Not Classifiable as to Carcinogenicity in Humans***Reproductive toxicity**

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

**STOT - single exposure**

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

**STOT - repeated exposure**

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

Refer to product information above.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life with long lasting effects

Picloram is toxic to some plants at very low concentrations. 2,4-D may be toxic to fish and aquatic invertebrates. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. DO NOT contaminate water when disposing of equipment washwaters or rinsate.

| Chemical Name                                  | Algae/aquatic plants | Fish  | Crustacea                                       |
|--|----------------------|---|---|
| 2,4-D Triisopropanolamine salt<br>18584-79-7   | -                    | 326: 96 h Cyprinus carpio mg/L<br>LC50 static   | -   |
| Picloram triisopropanolamine salt<br>6753-47-5 | -                    | 55.3: 96 h Pimephales promelas<br>mg/L LC50 static 4.0: 96 h<br>Oncorhynchus mykiss mg/L LC50 | 59 - 97: 48 h Daphnia magna mg/L<br>EC50 Static |

**Persistence and degradability**

Not readily biodegradable.

**Bioaccumulation**

Not likely to bioaccumulate.

**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 253 lbs. or greater with the following description: RQ; UN3082; Environmentally Hazardous Substance, Liquid, NOS (2,4-D triisopropanolamine salt); 9; III

**TDG**

Not regulated

**IATA**

|                             |  |
|-----------------------------|--|
| <b>UN/ID no</b>             | UN3082   |
| <b>Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s.  |
| <b>Hazard Class</b>         | 9  |
| <b>Packing Group</b>        | III  |
| <b>ERG Code</b>             | 9L   |
| <b>Special Provisions</b>   | A97, A158, A197  |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D triisopropanolamine salt), 9, III |

**IMDG**

|                 |        |
|-----------------|--------|
| <b>UN/ID no</b> | UN3082 |
|-----------------|--------|

|                             |  |
|-----------------------------|--|
| <b>Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s.  |
| <b>Hazard Class</b>         | 9  |
| <b>Packing Group</b>        | III  |
| <b>EmS-No</b>               | F-A, S-F   |
| <b>Special Provisions</b>   | 274, 335, 969  |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D triisopropanolamine salt), 9, III; Marine pollutant |

## 15. REGULATORY INFORMATION

### International Inventories

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | 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 % |
|---|-------------------------------|
| Picloram triisopropanolamine salt - 6753-47-5 | 1.0                           |

#### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | 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<br>18584-79-7 | 100 lb                   | -              | RQ 100 lb final RQ<br>RQ 45.4 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 |
|--|------------|---------------|--------------|
| Picloram triisopropanolamine salt<br>6753-47-5 | X          | X             | X            |

**EPA Pesticide Registration Number 83529-127****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: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Prolonged or frequently 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. Avoid contact with skin, eyes or clothing.

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

|                    |                  |                |                    |                                    |
|--------------------|------------------|----------------|--------------------|------------------------------------|
| <b><u>NFPA</u></b> | Health hazards 1 | Flammability 0 | Instability 0      | Physical and Chemical Properties - |
| <b><u>HMIS</u></b> | Health hazards 1 | Flammability 0 | Physical hazards 0 | Personal protection X              |

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**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**

20Mar2022