

# SAFETY DATA SHEET

Revision Date 17-Aug-2016 Issue Date 17-Aug-2016 Version 1

## 1. IDENTIFICATION

Product identifier

**Product Name** Sharda Fomesafen 2 SL

Other means of identification

**Product Code** 83529-16 **Synonyms** Shafen Herbicide **Registration Number(s)** 83529-16

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

**Emergency Telephone** 

Website: www.shardausa.com

Emergency telephone number

**Company Phone Number** 610-350-6930 (US)

+91 22 5678 2800 (India) 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 1

### Label elements

### **Emergency Overview**

### **Danger**

### **Hazard statements**

Harmful if swallowed Causes serious eye damage



Appearance aqueous solution Physical state liquid Odor Slight

### **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

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

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

Rinse mouth

#### **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-%
Other ingredients *	Proprietary	77.2
Fomesafen-sodium *	108731-70-0	22.8

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. Administer oxygen if breathing is

difficult.

Ingestion Call a physician or poison control center immediately. 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.

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

**Note to physicians**Treat symptomatically. 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. Hydrogen halides.

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. Avoid runoff to waterways and sewers.

### 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 Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required. Wash thoroughly after handling. 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 out of the reach of children. Keep/store only in original container. Keep containers

tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and

animal feeding stuffs.

Packaging materials Do not reuse container.

Incompatible materials Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines** 

exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls** 

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

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liauid

**Appearance** aqueous solution Odor Sliaht

Color amber **Odor threshold** No information available

Remarks • Method Property Values solution (1 %)

5.22

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

Seta Closed Cup

@ 25 °C

Flash point > 100 °C / > 212 °F

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

Flammability Limit in Air

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

Vapor pressure ~17 mmHg

Vapor density No information available

Relative density 1.11

Water solubility Miscible in water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties

No information available

Oxidizing properties Not applicable

**Other Information** 

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

Bulk density 9.30 lbs/gal

# 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. Nitrogen oxides (NOx). Carbon oxides. Hydrogen halides.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

# **Product Information**

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

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

**Skin contact** May be harmful in contact with skin.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Other ingredients	> 90 mL/kg (Rat)	-	-

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Fomesafen-sodium 108731-70-0	= 1250 mg/kg (Rat)	> 1 g/kg (Rabbit)	-

# Information on toxicological effects

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

blindness.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

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

Increased rates of malignant liver tumors in a 2-yr mouse feeding study (1000 ppm), but the

results are not considered relevant to man.

**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 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)
 5,482.00 mg/kg

 ATEmix (dermal)
 4,390.00 mg/kg mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### 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** 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.

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# **14. TRANSPORT INFORMATION**

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDGNot regulated

# 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 %
Fomesafen-sodium - 108731-70-0	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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## 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	-	-	Х
Fomesafen-sodium 108731-70-0	X	-	-

### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** 83529-16

#### **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. DUE TO CORROSIVE NATURE, MAY BE HARMFUL OR 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..

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

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

Properties -

Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

Issue Date17-Aug-2016Revision Date17-Aug-2016

**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** 

24August2016