

# **SAFETY DATA SHEET**

Issue Date 01-Aug-2017 Revision Date 01-Aug-2017 Version 1

### 1. IDENTIFICATION

Product identifier

Product Name Sharda Metolachlor 48.28% + Fornesafen 10% EC

Other means of identification

Product Code83529-76SynonymsSharpRegistration Number(s)83529-76

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)

Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Emergency Overview**

# **Danger**

#### **Hazard statements**

Causes serious eye damage May cause an allergic skin reaction May damage fertility or the unborn child May cause respiratory irritation



Appearance Liquid Physical state liquid Odor Characteristic

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

Obtain special instructions before use

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

Use personal protective equipment as required

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

Contaminated work clothing should not be allowed out of the workplace

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

Use only outdoors or in a well-ventilated area

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see instructions on this label)

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 or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

#### **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. Very toxic to aquatic life with long lasting effects.

#### Unknown acute toxicity

13.72% 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-%
Metolachlor	51218-45-2	48.28
1-Methyl-2-pyrrolidone *	872-50-4	10 - 30
Other ingredients *	Proprietary	10 - 30
Fomesafen-sodium	108731-70-0	10.00

<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. May cause allergic skin reaction. Coughing and/ or wheezing.

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

Note to physicians May cause sensitization in susceptible persons. Probable mucosal damage may

contraindicate the use of gastric lavage. 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. 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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

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.

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#### **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 stateliquidAppearanceLiquidOdorCharacteristic

Color light yellow Odor threshold No information available

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

**pH** 4.98 solution (1 %)

Melting point / freezing point

No information available

Boiling point / boiling rangeNo information availableFlash point94 °C / 201 °FSeta Closed Cup

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** ~0.5 mmHg @ 25 °C

Vapor density No information available

Relative density 1.117
Water solubility Emulsifies

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

Kinematic viscosity ~ 35 mm2/s @ 40 °C

Dynamic viscosity

Explosive properties

Oxidizing properties

No information available
Not an explosive
Not applicable

Other Information

Softening point
Molecular weight
VOC Content (%)
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. Hydrogen chloride.

# 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** May cause sensitization by skin contact.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Metolachlor	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	>3.20 mg/L (rat)
51218-45-2			
1-Methyl-2-pyrrolidone	= 3914 mg/kg (Rat)	= 8 g/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h
872-50-4			
Fomesafen-sodium	= 1250 mg/kg (Rat)	> 1 g/kg (Rabbit)	-
108731-70-0			

#### Information on toxicological effects

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

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

**Reproductive toxicity**Contains a known or suspected reproductive toxin.

**STOT - single exposure**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.

**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)
 5,694.00 mg/kg

 ATEmix (dermal)
 4,990.00 mg/kg

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

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

23.72 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Metolachlor	Green algae 96-hr EC50 = 0.4 mg/L	Bluegill 96-hr EC50 = 10 mg/L	25.1: 48 h Daphnia magna mg/L
51218-45-2			LC50 4.25: 48 h Daphnia magna
			mg/L EC50 13 - 18.4: 48 h Daphnia
			magna mg/L EC50 Static
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	

### Persistence and degradability

Not readily biodegradable.

#### **Bioaccumulation**

Bioaccumulative potential.

Chemical Name	Partition coefficient
Metolachlor	2.9
51218-45-2	
1-Methyl-2-pyrrolidone	-0.46
872-50-4	

### 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.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

<u>IATA</u>

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. (Metolachlor), 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

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Metolachlor), 9, 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	
Fomesafen-sodium - 108731-70-0	1.0	

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
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 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
Metolachlor	X	-	-
51218-45-2			
1-Methyl-2-pyrrolidone	X	X	X
872-50-4			
Fomesafen-sodium	Х	-	-

Revision Date 01-Aug-2017

108731-70-0

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

**EPA Pesticide Registration Number** 83529-76

#### **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. Do not get in eyes or on clothing. Harmful if swallowed. Avoid contact with skin. This product may cause skin sensitization reactions in some people..

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

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical

Properties 
MIS Health hazards 3\* Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

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 01-Aug-2017

 Revision Date
 01-Aug-2017

**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** 

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