

# SAFETY DATA SHEET

Revision Date 29-Jul-2016 Issue Date 29-Jul-2016 Version 1

# 1. IDENTIFICATION

Product identifier

**Product Name** Sharda Metribuzin 4SC

Other means of identification

**Product Code** 83529-46 **Svnonvms** Metrixx SC **Registration Number(s)** 83529-46

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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

**Emergency Overview** 

Not classified

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance aqueous solution Physical state liquid **Odor** Strong Sulfurous

**Precautionary Statements - Prevention** 

Not applicable

**Precautionary Statements - Response** 

Not applicable

# Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Very toxic to aquatic life with long lasting effects. 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	30 - 60
Metribuzin	21087-64-9	42.7
Glycerin *	56-81-5	1 - 5

<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 Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician if irritation persists. 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.

Administer oxygen if breathing is difficult. Call a physician 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 None known.

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

diagnostic. Poisoning is accompanied bybreathing difficulties and sedation.

# 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 Do not scatter spilled material with high pressure water streams.

#### 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). Oxides of sulfur.

#### **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**Use personal protective equipment as required. Ensure adequate ventilation, especially in

confined areas.

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 Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Do not breathe dust/fume/gas/mist/vapors/spray.

#### 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

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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
Metribuzin 21087-64-9	TWA: 5 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>
Glycerin 56-81-5	-	TWA: 15 mg/m³ mist, total particulate TWA: 5 mg/m³ mist, respirable fraction	-

NIOSH IDLH Immediately Dangerous to Life or Health

#### Appropriate 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). Tight sealing safety 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

clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

Appearanceaqueous solutionOdorStrong SulfurousColorWhiteOdor thresholdNo information available

Property Values Remarks • Method

pH 6.21 solution (1 %)
Melting point / freezing point No information available

Boiling point / boiling range
Flash point

No information available
Not applicable

**Evaporation rate** No information available

@ 25 °C

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 mmHq

Vapor density No information available

Relative density 1.124 Water solubility dispersible

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 Not applicable **Oxidizing properties** 

**Other Information** 

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo 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. Nitrogen oxides (NOx). Carbon oxides.

# 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): Not an eye irritant. Skin Irritation (rabbit): Not a skin irritant. Inhalation LC50 (rat): >4.7 mg/L (4 HR)

Skin Sensitization (guinea pig): Not a sensitizer

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

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

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

Ingestion

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

Chemical Name	al Name Oral LD50		Inhalation LC50
Other ingredients	> 90 mL/kg (Rat)	-	-
Metribuzin 21087-64-9	= 2020 mg/kg (Male Rat ) = 1100 mg/kg (Female Rat )	> 5000 mg/kg (Rat) > 20 g/kg ( Rabbit)	> 860 mg/m³ (Rat) 4 h
Glycerin 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m <sup>3</sup> (Rat) 1 h

#### Information on toxicological effects

**Symptoms** No information available.

# 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.

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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)** >2000.00 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Metribuzin	Green algae 72-hr EC50 = 0.007	Fish (rainbow trout) 96-hr LC50 =	Daphnia magna 48-hr EC50 = 98.5
21087-64-9	mg/L	74.6 mg/L	mg/L
Glycerin	-	51 - 57: 96 h Oncorhynchus mykiss	500: 24 h Daphnia magna mg/L
56-81-5		mL/L LC50 static	EC50

#### Persistence and degradability

Not readily biodegradable.

# **Bioaccumulation**

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Glycerin	-1.76
56-81-5	

### 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

IATA

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. (Metribuzin), 9, III

**IMDG** 

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. (Metribuzin), 9, III, Marine

pollutant

# 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 %
Metribuzin - 21087-64-9	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	No
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	-	-	X
Metribuzin	X	X	X
21087-64-9			
Glycerin	X	X	X
56-81-5			

# U.S. EPA Label Information

**EPA Pesticide Registration Number** 83529-46

#### **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. 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..

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

NFPA_	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X
Issue Date	29-Jul-20	16		
Revision Date	29-Jul-20	16		

### **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** 

05Aug16