

# SAFETY DATA SHEET

Issue Date 08-Sep-2019 Revision Date 08-Sep-2019 Version 1

#### 1. IDENTIFICATION

Product identifier

Product Name Sharda Glyphosate 20.5% + Metolachlor 20.5% + Mesotrione 2.05% ZC

Other means of identification

Product Code 83529-111
Synonyms Magna
Registration Number(s) 83529-111

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

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

**Emergency Overview** 

Warning

**Hazard statements** 

Causes eye irritation

Appearance Opaque aqueous solution Physical state liquid Odor Slight

**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

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

Revision Date 08-Sep-2019

ABN: Magna

#### **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	56.95
Metolachlor *	51218-45-2	20.5
Glyphosate, potassium salt *	70901-12-1	20.5
Mesotrione *	104206-82-8	2.05

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

### 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.

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).

Explosion data

83529-111 - Sharda Glyphosate 20.5% + Metolachlor 20.5% + Mesotrione 2.05% ZC

ABN: Magna

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### <u>Protective equipment and precautions for firefighters</u>

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

Revision Date 08-Sep-2019

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).

83529-111 - Sharda Glyphosate 20.5% + Metolachlor 20.5% + Mesotrione 2.05% ZC

ABN: Magna

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

Revision Date 08-Sep-2019

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

@ 25 °C

clothing before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical state** liquid

**Appearance** Opaque aqueous solution Odor Slight

Color white Odor threshold No information available

Remarks • Method Property Values

Hq 2.2 solution (1 %)

Melting point / freezing point No information available

Boiling point / boiling range No information available 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 1.2232 g/cm3 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

**Dvnamic viscosity** > 300 mPas @ 40 °C

**Explosive properties** Not an explosive Oxidizing properties Not applicable

# **Other Information**

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

83529-111 - Sharda Glyphosate 20.5% + Metolachlor 20.5% + Mesotrione 2.05% ZC

ABN: Magna

Revision Date 08-Sep-2019

#### 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**

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

Eye contact Moderately irritating to the 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)	-	-
Metolachlor 51218-45-2	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	>3.20 mg/L (rat)
Glyphosate, potassium salt 70901-12-1	= 4873 mg/kg (Rat)	= 7940 mg/kg (Rabbit)	> 4.98 mg/L (Rat)4 h
Mesotrione 104206-82-8	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

#### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

### 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 The U.S. EPA classified glyphosate as Group E, evidence of non-carcinogenicity in

humans. The U.S. EPA does not consider glyphosate to be a human carcinogen based on studies of laboratory animals that did not produce compelling evidence of carcinogenicity. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Glyphosate, potassium salt	-	Group 2A	-	X
70901-12-1				

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

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

X - Present

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. **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) 18,509.00 mg/kg ATEmix (dermal) 18,569.00 mg/kg ATEmix (inhalation-dust/mist) 24.32 mg/l

Revision Date 08-Sep-2019

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

53.51 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Metolachlor 51218-45-2	Green algae 96-hr EC50 = 0.4 mg/L	Bluegill 96-hr EC50 = 10 mg/L	4.25: 48 h Daphnia magna mg/L EC50 25.1: 48 h Daphnia magna mg/L LC50 13 - 18.4: 48 h Daphnia magna mg/L EC50 Static
Glyphosate, potassium salt 70901-12-1	485: 72 h Pseudokirchneriella subcapitata mg/L EC50 5.5554: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	5.19 - 5.83: 96 h Lepomis macrochirus mg/L LC50 flow- through 1.1 - 1.6: 96 h Oncorhynchus mykiss mg/L LC50 static 9.9 - 12: 96 h Cyprinus carpio mg/L LC50 1.7 - 5: 96 h Pimephales promelas mg/L LC50 static 1.3 - 2.5: 96 h Lepomis macrochirus mg/L LC50 static 607 - 638: 96 h Cyprinus carpio mg/L LC50 semi- static	2.6 - 3.4: 48 h Daphnia magna mg/L EC50 Static
1,2-Propylene glycol 57-55-6	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static	1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50

# Persistence and degradability

Not readily biodegradable.

#### **Bioaccumulation**

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Metolachlor 51218-45-2	2.9
Glyphosate, potassium salt 70901-12-1	0.00 - 0.002

# 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

ABN: Magna

Revision Date 08-Sep-2019

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

**Hazard Class Packing Group** Ш **ERG Code** 91

**Special Provisions** A97, A158, A197

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Glyphosate, Mesotrione), 9,

**IMDG** 

UN/ID no UN3082

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

**Hazard Class Packing Group** Ш **EmS-No** F-A, S-F **Special Provisions** 274, 335

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Glyphosate, Mesotrione), 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard Yes **Chronic Health Hazard** No Fire hazard Nο 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

Revision Date 08-Sep-2019

#### US State Regulations

### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Glyphosate, potassium salt - 70901-12-1	Carcinogen

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Other ingredients	-	-	X
Metolachlor 51218-45-2	X	-	-
Glyphosate, potassium salt 70901-12-1	X	-	-
1,2-Propylene glycol 57-55-6	X	-	X

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

EPA Pesticide Registration Number 83529-111

#### **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. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. This product may cause skin sensitization reactions in some people. Wash hands 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 1	Flammability 0	Instability 0	Physical and Chemical
				Properties -
		<b>-</b> 1 1 1114 0	<b>B</b> I I II A	<b>–</b>

<u>HMIS</u> Health hazards 1 Flammability 0 Physical hazards 0 Personal protection X

 Issue Date
 08-Sep-2019

 Revision Date
 08-Sep-2019

**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** 

08Sep2019