

# **SAFETY DATA SHEET**

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

# 1. IDENTIFICATION

Product identifier

Product Name Sharda Atrazine 18.65% + Metolachlor 19% + Mesotrione 2.44% ZE

Other means of identification

Product Code 83529-113 Synonyms Appeal Registration Number(s) 83529-113

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** 

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 2B
Specific target organ toxicity (repeated exposure)	Category 2

#### Label elements

# **Emergency Overview**

# Warning

#### **Hazard statements**

Causes eye irritation

May cause damage to organs through prolonged or repeated exposure



Appearance aqueous solution Physical state liquid Odor Slight

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

Wash face, hands and any exposed skin thoroughly after handling

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

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

Get medical advice/attention if you feel unwell

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

#### **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 if swallowed. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

#### **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	59.91
Metolachlor	51218-45-2	19.00
Atrazine	1912-24-9	18.65
Mesotrione	104206-82-8	2.46

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.

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# Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

#### 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. Nitrogen oxides (NOx).

#### 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

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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 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.

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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
Atrazine	TWA: 2 mg/m <sup>3</sup> inhalable particulate	-	TWA: 5 mg/m <sup>3</sup>
1912-24-9	matter		

NIOSH IDLH Immediately Dangerous to Life or Health

# **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

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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

Seta Closed Cup

@ 25 °C

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 liquid

Appearanceaqueous solutionOdorSlight

Color beige Odor threshold No information available

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

pH 3.4 solution (1 %)

**Melting point / freezing point**No information available

Boiling point / boiling range No information available

Flash point  $> 100 \, ^{\circ}\text{C} \, / \, > 212 \, ^{\circ}\text{F}$ 

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

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressure ~17 mmHg

Vapor density No information available

Relative density 1.0795

Water solubility Miscible in water

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

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Kinematic viscosity > 650 mm2/s @ 40 °C

Dynamic viscosityNo information availableExplosive propertiesNot an explosiveOxidizing propertiesNot 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. 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.

**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)
Atrazine 1912-24-9	= 672 mg/kg (Rat)	= 7500 mg/kg (Rabbit ) > 2000 mg/kg ( Rat ) > 5000 mg/kg (Rat )	= 5200 mg/m <sup>3</sup> (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

SensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.

Chemical Name	ACGIH	IARC	NTP	OSHA
Atrazine	A3	Group 3	-	-
1912-24-9				

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ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Not classifiable as a human carcinogen

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 May cause damage to organs through prolonged or repeated exposure.

**Chronic toxicity** May cause adverse liver effects.

**Target Organ Effects** Central nervous system, Eyes, liver, Respiratory system, Skin. **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

3,426.00 mg/kg ATEmix (oral) ATEmix (dermal) 20,336.00 mg/kg ATEmix (inhalation-dust/mist) 27.90 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

55.68 % 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	4.25: 48 h Daphnia magna mg/L
51218-45-2	l same and a same a same a		EC50 25.1: 48 h Daphnia magna
			mg/L LC50 13 - 18.4: 48 h
			Daphnia magna mg/L EC50 Static
Atrazine	0.03: 72 h Desmodesmus subspicatus	4.5 - 11: 96 h Oncorhynchus mykiss mg/L	5.2 - 8.1: 48 h Daphnia magna
1912-24-9	mg/L EC50 0.072: 72 h Desmodesmus	LC50 3 - 6.75: 96 h Oncorhynchus mykiss	mg/L EC50 Static
	subspicatus mg/L EC50 static 0.2: 72 h	mg/L LC50 static 8: 96 h Lepomis	Ğ
	Pseudokirchneriella subcapitata mg/L	macrochirus mg/L LC50 flow-through 23.999:	
	EC50 0.004: 96 h Pseudokirchneriella	96 h Lepomis macrochirus mg/L LC50 semi-	
	subcapitata mg/L EC50 static 0.0096 -	static 4.1: 96 h Pimephales promelas mg/L	
	0.07: 72 h Pseudokirchneriella	LC50 static 4.3: 96 h Poecilia reticulata mg/L	
	subcapitata mg/L EC50 static 0.0929: 72	LC50 static 3 - 6.75: 96 h Oncorhynchus	
	h Pseudokirchneriella subcapitata mg/L	mykiss mg/L LC50 semi-static 16: 96 h	
	EC50 semi-static 0.014 - 0.027: 96 h	Lepomis macrochirus mg/L LC50 19: 96 h	
	Desmodesmus subspicatus mg/L EC50	Cyprinus carpio mg/L LC50 static 15.7 - 20.2:	
	semi-static 0.13: 96 h Pseudokirchneriella	96 h Cyprinus carpio mg/L LC50 semi-static	
	subcapitata mg/L EC50	5.4 - 8.4: 96 h Lepomis macrochirus mg/L	
		LC50 static	
1,2-Propylene glycol	19000: 96 h Pseudokirchneriella	51600: 96 h Oncorhynchus mykiss mg/L	1000: 48 h Daphnia magna mg/L
57-55-6	subcapitata mg/L EC50	LC50 static 51400: 96 h Pimephales	EC50 Static 10000: 24 h Daphnia
		promelas mg/L LC50 static 710: 96 h	magna mg/L EC50
		Pimephales promelas mg/L LC50 41 - 47: 96	
		h Oncorhynchus mykiss mL/L LC50 static	

## Persistence and degradability

Not readily biodegradable.

#### Bioaccumulation

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Metolachlor	2.9
51218-45-2	
Atrazine	2.6
1912-24-9	

#### Other adverse effects

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

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# 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** 

UN/ID no UN3082

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

**Hazard Class Packing Group** Ш **ERG Code** 9L

**Special Provisions** A97, A158, A197

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Atrazine, Metolachlor), 9, III

**IMDG** 

UN/ID no UN3082

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

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

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Atrazine, Metolachlor), 9, III

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies Complies **IECSC** Complies **KECL 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

Atrazine - 1912-24-9 1.0	Chemical Name	SARA 313 - Threshold Values %	
		1.0	

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#### SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **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	
Atrazine - 1912-24-9	Developmental	
	Female Reproductive	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Metolachlor 51218-45-2	X	-	-
Atrazine 1912-24-9	X	X	Х
1,2-Propylene glycol 57-55-6	Х	-	Х

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 83529-113

#### **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. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties 
<u>MIS</u> Health hazards 2\* Flammability 0 Physical hazards 0 Personal protection X

HMIS Health hazards 2\* Flammability 0 Physical hazards 0 Inchronic Hazard Star Legend \*= Chronic Health Hazard

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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** 

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