

SAFETY DATA SHEET

Version 1

Issue Date 29-Mar-2021

Revision Date 29-Mar-2021

I. IDENTIFICATION

Product identifier
Product Name
Sharda Diuron 62.22% + Imazapyr 7.78% WDG ABN: Emade

Other means of identification
Product Code 83529-144
Synonyms None
Registration Number(s) 83529-144

Recommended use of the chemical and restrictions on useRecommended UseHerbicideUses advised againstNo information available

Details of the supplier of the safety data sheet

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Manufacturer Address Sharda USA LLC P.O. Box 640 Hockessin, DE 19707 Website: www.shardausa.com

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

Label elements

Emergency Overview

Warning

Hazard statements Harmful if swallowed Causes eye irritation Suspected of causing cancer May cause damage to organs through prolonged or repeated exposure



Appearance dry, free flowing granules

Physical state Solid

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

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

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No	Weight-%
Diuron	330-54-1	62.22
Other ingredients	Proprietary	30.00
Imazapyr	81334-34-1	7.78

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.

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Self-protection of the first aider	Ensure that medical personnel are aware of the material to protect themselves.	(s) involved and tak	e precautions
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	May cause redness and tearing of the eyes.		
Indication of any immediate medic	al attention and special treatment needed		
Note to physicians	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media Dry chemical, CO2, water spray or re for later disposal. Water spray, fog or	gular foam. Move containers from fire area if you can do it regular foam.	without risk. Dike fir	e-control water
Unsuitable extinguishing media	a None.		
Specific hazards arising from the c Thermal decomposition can lead to re	themical elease of irritating and toxic gases and vapors.		
Hazardous combustion produc	tsCarbon oxides. Nitrogen oxides (NOx). Hydrogen chloric	le.	
Explosion data Sensitivity to Mechanical Impa Sensitivity to Static Discharge	ct None. None.		
Protective equipment and precauti As in any fire, wear self-contained bre protective gear. Cool containers / tan	eathing apparatus pressure-demand, MSHA/NIOSH (appro	ved or equivalent) a	nd full
	6. ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective equipment and emergency procedures			
Personal precautions	Evacuate personnel to safe areas. Ensure adequate ven areas. Use personal protective equipment as required. A		n confined
For emergency responders	Use personal protection recommended in Section 8. Ver	itilate the area.	
Environmental precautions			
Environmental precautions	Prevent entry into waterways, sewers, basements or cor	fined areas	
Methods and material for containm			
Methods for containment	Prevent dust cloud. Prevent further leakage or spillage if	safe to do so	
			oping or use o
Methods for cleaning up	Avoid creating dust. Do not dry sweep dust. Wet dust w vacuum to collect dust. Sweep up and shovel into suitab		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Use personal protective equipment as required. Avoid co Wash contaminated clothing before reuse. Do not eat, do product. Do not breathe dust/fume/gas/mist/vapors/spray	rink or smoke when	

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diuron	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³
330-54-1	_		_
Other ingredients	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
_	_	TWA: 5 mg/m ³ respirable fraction	TWA: 5 mg/m ³ respirable dust

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). 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 Appearance Color	Solid dry, free flowing granules Off-white	Odor Odor thres
Property	Values	<u>Remarks</u>
рН	3.55	solution (1
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	Not applicable	
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	

shold

None No information available

 Method %)

Other Information

Softening point Molecular weight VOC Content (%) Density Bulk density No information available 0.585 g/mL dispersible No information available Not an explosive Not applicable

No information available

0 mmHg

@ 25 °C

10. STABILITY AND REACTIVITY

Reactivity

No data available <u>Chemical stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to avoid</u> Elevated Temperature. Storage near to reactive materials. <u>Incompatible materials</u> Strong oxidizing agents. <u>Hazardous Decomposition Products</u> Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx). Carbon oxides. Hydrogen chloride.

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. Substance may cause slight skin irritation.
Ingestion	Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diuron	= 1017 mg/kg (Male Rat) = 4990	> 2000 mg/kg (Male Rat) > 5 g/kg	> 0.265 mg/L (Rat)
330-54-1	mg/kg (Female Rat)	(Female Rat)	
lmazapyr 81334-34-1	> 5 g/kg (Rat)	> 2000 mg/kg (Rabbit)	-

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.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	US EPA known/likely carcinogen (Diuron). This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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	Avoid repeated exposure. May cause adverse liver effects. May cause adverse effects on the bone marrow and blood-forming system.
Target Organ Effects	Central nervous system, liver, Thyroid, Respiratory system, blood, Eyes, 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

ATEmix (oral)	> 1000	mg/kg
ATEmix (dermal)	> 2000	mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas. DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Diuron	0.022: 96 h Desmodesmus	13.4 - 15: 96 h Pimephales	1.4: 48 h Daphnia magna mg/L
330-54-1	subspicatus mg/L EC50 0.1: 72 h	promelas mg/L LC50 flow-through	EC50 6.3 - 13: 48 h Daphnia magna
	Pseudokirchneriella subcapitata	13.4 - 15: 96 h Pimephales	mg/L EC50 Static
	mg/L EC50 static	promelas mg/L LC50 static	

Persistence and degradability

Not readily biodegradable.

Bioaccumulation

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Diuron	2.82
330-54-1	

Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

<u>Waste treatment methods</u> 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
<u>DOT</u>	Not Regulated (Single Container < RQ)
	This product is regulated by US DOT when shipped in single containers with a net weight of 160 lbs or greater with the following description: RQ; UN3077; Environmentally Hazardous Substance, Solid, NOS (Diuron); 9; III.

<u>TDG</u>	Not regulated
IATA UN/ID no Proper shipping name Hazard Class Packing Group ERG Code Special Provisions Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III 9L A97, A158, A179, A197 UN3077, Environmentally hazardous substance, solid, n.o.s. (Diuron), 9, III
IMDG UN/ID no Proper shipping name Hazard Class Packing Group EmS-No Special Provisions Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III F-A, S-F 274, 335, 966, 967 UN3077, Environmentally hazardous substance, solid, n.o.s. (Diuron), 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 %
Diuron - 330-54-1	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diuron 330-54-1	100 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Diuron	100 lb	-	RQ 100 lb final RQ
330-54-1			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Diuron - 330-54-1	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diuron	Х	Х	Х
330-54-1			
Other ingredients	-	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number 83529-144

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 the skin. Causes moderate eye irritation. Avoid contact with skin 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.

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

<u>NFPA</u>	Health hazards 2	Flammability	1	Instability 0		Physical and Chemical Properties -
HMIS Chronic Hazard Star Lege	Health hazards 2* nd *= Chronic	Flammability Health Hazard	1	Physical hazards	0	Personal protection X
Issue Date	29-Mar-20	21				

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Revision Date 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.

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End of Safety Data Sheet