

# SAFETY DATA SHEET

Issue Date 30-Jan-2021 Revision Date 30-Jan-2021 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Sharda Bromacil 2% + Diuron 2% WDG ABN: Brahmos 22

Other means of identification

Product Code 83529-130 Synonyms None Registration Number(s) 83529-130

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

# Label elements

### **Emergency Overview**

# Warning

#### **Hazard statements**

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 Odor Pungent

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### **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 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

### **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

May be harmful if swallowed. May be harmful in contact with skin. Causes mild skin irritation. 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

#### <u>Substance</u>

Not applicable

### <u>Mixture</u>

Chemical Name	CAS No	Weight-%
Other ingredients	Proprietary	60 - 100
Silica, amorphous	7631-86-9	1 - 5
Diuron *	330-54-1	2.0
Bromacil *	314-40-9	2.0

<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.

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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

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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

**Note to physicians**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. Nitrogen oxides (NOx). 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. Avoid creating dust.

**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 dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Avoid creating dust. Do not dry sweep dust. Wet dust with water before sweeping or use a

vacuum to collect dust. Sweep up and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

# Precautions for safe 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.

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### 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

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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
Silica, amorphous 7631-86-9	-	TWA: 50 μg/m³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays  TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA	IDLH: 3000 mg/m³ TWA: 6 mg/m³
Diuron 330-54-1	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>

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 Solid

Appearancedry, free flowing granulesOdorPungent

Colorred brownOdor thresholdNo information available

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

pH 7.84 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

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@ 25 °C

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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 mmHg

Vapor density No information available

Relative density 1.4764 g/mL 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 Not an explosive **Explosive properties Oxidizing properties** 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.

<u>Incompatible materials</u> Strong oxidizing agents.

**Hazardous Decomposition Products** 

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** Acute Oral LD50 (rat): >2000 mg/kg

Acute Dermal LD50 (rabbit): > 2000 mg/kg

Eye Irritation (rabbit): Mild irritant. Skin Irritation (rabbit): Mild irritant. Inhalation LC50 (rat): >4.11 mg/L (4 HR) Skin Sensitization (guinea pig): Not a sensitizer

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

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Other ingredients	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Silica, amorphous 7631-86-9	= 7900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat)1 h
Diuron 330-54-1	= 1017 mg/kg (Rat) = 4990 mg/kg (Rat)	> 2000 mg/kg (Rat) > 5 g/kg ( Rat)	> 0.265 mg/L (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. **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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, amorphous	-	Group 3	-	-
7631-86-9				

### IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity**STOT - single exposure
Based on available data, the classification criteria are not met.
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 .

Refer to product information above.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Other ingredients	-	250: 96 h Brachydanio rerio mg/L	14: 48 h Daphnia magna mg/L LC50
		LC50 18: 96 h Cyprinus carpio mg/L	423: 24 h Daphnia magna mg/L
		LC50 123 - 128: 96 h Poecilia	EC50
		reticulata mg/L LC50 semi-static	
		460 - 1000: 96 h Leuciscus idus	
		mg/L LC50 static 100: 96 h	
		Pimephales promelas mg/L LC50	
		126: 96 h Poecilia reticulata mg/L	
		LC50 480: 96 h Brachydanio rerio	
		mg/L LC50 flow-through 420: 96 h	
		Brachydanio rerio mg/L LC50 semi-	
		static 5.2 - 8.2: 96 h Oncorhynchus	
		mykiss mg/L LC50 static	
Silica, amorphous	440: 72 h Pseudokirchneriella	5000: 96 h Brachydanio rerio mg/L	7600: 48 h Ceriodaphnia dubia mg/L
7631-86-9	subcapitata mg/L EC50	LC50 static	EC50
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 0.0007: 96 h	promelas mg/L LC50 static 2.3 - 3.3:	

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Pseudokirchneriella subcapitata	96 h Lepomis macrochirus mg/L	
mg/L EC50 static 0.036: 72 h	LC50 static 2.9: 96 h Cyprinus	
Desmodesmus subspicatus mg/L	carpio mg/L LC50 14.7: 96 h	
EC50 static	Oncorhynchus mykiss mg/L LC50 4:	
	96 h Lepomis macrochirus mg/L	
	LC50 1.5 - 2.54: 96 h Oncorhynchus	
	mvkiss mg/L LC50 static	

#### Persistence and degradability

Not readily biodegradable.

#### **Bioaccumulation**

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
Other ingredients	-5.1
Diuron 330-54-1	2.82

#### 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

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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 (Single Container < RQ)

This product is regulated by US DOT when shipped in single containers with a net weight of

5000 lbs or greater with the following description: RQ; UN3077; Environmentally

Hazardous Substance, Solid, NOS (Diuron); 9; III.

TDG Not regulated

IATA

UN/ID no UN3077

**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

Special Provisions A97, A158, A179, A197

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Diuron, Bromacil), 9, III

<u>IMDG</u>

UN/ID no UN3077

**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.

Hazard Class 9
Packing Group III
EmS-No F-A, S-F

**Special Provisions** 274, 335, 966, 967

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Diuron, Bromacil), 9, III;

Marine Pollutant

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### 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 %
Other ingredients -	1.0
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 does not contain any substances regulated as 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

#### <u>CERCLA</u>

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

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	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Silica, amorphous 7631-86-9	-	X	Х
Diuron 330-54-1	X	X	X

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 83529-130

#### **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 the skin. Causes moderate eye irritation. 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 2 Flammability 1 Instability 0 Physical and Chemical

Properties -

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HMIS Health hazards 2\* Flammability 1 Physical hazards 0 Personal protection X

Chronic 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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