

SAFETY DATA SHEET

Issue Date 30-Jan-2021

Revision Date 30-Jan-2021

Version 1

1. IDENTIFICATION

83529-130 None 83529-130 al and restrictions on use Herbicide No information available y data sheet		
None 83529-130 al and restrictions on use Herbicide No information available		
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Herbicide No information available		
No information available		
610-350-6930 (US)		
CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887	222	
	+91 22 5678 2800 (India) CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887 POISON CONTROL CENTER: 800-222-1	+91 22 5678 2800 (India) CHEMTREC: 800-424-9300

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

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

Substance

Not applicable

Mixture

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

*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.

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 effe	cts, 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 productsCarbon 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.		
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 containm	ent 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

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 incompatibilitiesStorage ConditionsKeep 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 materialsDo not reuse container.Incompatible materialsStrong 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/m ³ TWA: 6 mg/m ³
Diuron 330-54-1	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Individual protection measures, su	Ensure adequate ventilation, especially in confined areas. And. Showers. Eyewash stations. Ventilation systems. ch 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

Flash point

Evaporation rate

Physical state	Solid
Appearance	dry, free flowing granules
Color	red brown
<u>Property</u>	<u>Values</u>
pH	7.84
Melting point / freezing point	No information available
Boiling point / boiling range	No information available

Not applicable

No information available

Odor Odor threshold Pungent No information available

Remarks • Method solution (1 %)

Lower flammability limit:No information availableVapor pressure0 mmHg@ 25 °CVapor densityNo information availableRelative density1.4764 g/mLWater solubilitydispersibleSolubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNot an explosiveOxidizing propertiesNot applicableOther InformationNo information availableVOC Content (%)No information availableNo information availableNo information available	Flammability (solid, gas) Flammability Limit in Air Upper flammability limit:	No information available No information available	
Vapor densityNo information availableRelative density1.4764 g/mLWater solubilitydispersibleSolubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableDecomposition temperatureNo information availableDecomposition temperatureNo information availableDynamic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNot an explosiveOxidizing propertiesNot applicableOther InformationNo information availableMolecular weightNo information availableVOC Content (%)No information available	Lower flammability limit:	No information available	
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Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information available	Oxidizing properties	Not applicable	
Molecular weightNo information availableVOC Content (%)No information available	Other Information		
VOC Content (%) No information available	Softening point	No information available	
	Molecular weight	No information available	
Density No information available	VOC Content (%)	No information available	
	Density	No information available	
Bulk 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.

 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. 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 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.

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 toxicologica	al effects				
Symptoms	May cause redness and te	aring of the eyes.			
Delayed and immediate effo	ects as well as chronic effects fron	n short and long-term exposure	_		
Sensitization	Based on available data, tl	he classification criteria are not me	et.		
Germ cell mutagenicity		Based on available data, the classification criteria are not met.			
Carcinogenicity		nogen (Diuron). This product does	s not contain any carcinogens		
		s listed by OSHA, IARC or NTP.			
Chemical Name	ACGIH IAF	RC NTP	OSHA		
Silica, amorphous 7631-86-9	- Grou	- E qu	-		
IARC (International Agenc	y for Research on Cancer)				
•	s to Carcinogenicity in Humans				
Reproductive toxicity		he classification criteria are not me			
STOT - single exposure		he classification criteria are not me			
STOT - repeated exposure	May cause damage to org	ans through prolonged or repeated	d exposure.		
Chronic toxicity	Avoid repeated exposure. the bone marrow and bloo	May cause adverse liver effects. N d-forming system.	May cause adverse effects on		
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 tox	icity - Product Information				

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		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:	

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	
	mykiss 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			
<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 5000 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, Bromacil), 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, Bromacil), 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 %		
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

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

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
Silica, amorphous 7631-86-9	-	X	Х
Diuron 330-54-1	Х	Х	Х

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 -
HMIS Chronic Hazard Star Lege	Health hazards 2* nd *= Chroni	Flammability c Health Hazard	1	Physical hazards 0	Personal protection X
Issue Date Revision Date Revision Note	30-Jan-2 30-Jan-2				

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.

31Jan2021

End of Safety Data Sheet