

Version 9.0	Revision Date: 18.10.2021	SDS Number: S152486924	This version replaces all previous versions.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	REGLONE
--------------	---	---------

Design code : A1412P

Manufacturer or supplier's details

Company	:	Syngenta Australia Pty Ltd (ABN 33 002 933 717) www.syngenta.com.au			
Address	:	2-4 Lyonpark Road Macquarie Park NSW 2113 Australia			
Telephone	:	(02) 8014 5200			
Emergency telephone number	:	13 11 26 (Poison Information Centre) 1800 033 111 (Syngenta)			
Telefax	:	(02) 8876 8446			
Recommended use of the chemical and restrictions on use					

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Corrosive to metals	:	Category 1
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 3
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure	:	Category 1 (Eyes)
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H290 May be corrosive to metals.

SAFETY DATA SHEET



Varaian	Dovision Data		
Version 9.0	Revision Date: 18.10.2021	SDS Number: S152486924	This version replaces all previous versions.
Precautionary statements		H331 Toxic if H335 May ca H372 Causes repeated exp • • • • • • • • • • • • • • • • • • •	use respiratory irritation. s damage to organs (Eyes) through prolonged o
		CENTER/ do P304 + P340 and keep cor doctor. P314 Get me	+ P330 IF SWALLOWED: Call a POISON ctor if you feel unwell. Rinse mouth. + P311 IF INHALED: Remove person to fresh a nfortable for breathing. Call a POISON CENTEF dical advice/ attention if you feel unwell. spillage to prevent material damage.
		Storage: P403 + P233 tightly closed P405 Store lo	Store in a well-ventilated place. Keep container
		Disposal: P501 Dispose disposal plan	e of contents/ container to an approved waste t

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance,	/ Mixture	:	Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
diquat dibromide	85-00-7	>= 30 -< 60

SECTION 4. FIRST AID MEASURES

General advice	:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
If inhaled	:	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respira-



Version 9.0	Revision Date: 18.10.2021	SDS Number: S152486924	This version replaces all previous versions.
	se of skin contact	Call a physicia Take off all co Wash off imme If skin irritation Wash contami	varm and at rest. In or poison control centre immediately. Intaminated clothing immediately. In persists, call a physician. In a physician.
In cas	se of eye contact	for at least 15 Remove conta	
lf swa	allowed		seek medical advice immediately and show this bel.
	important symptoms effects, both acute and red		of the mouth, throat and oesophagus
Notes	s to physician	body weight in for adults or 15 NOTE: The us adsorbent has Eye contact:- 5 trivial contact a	her activated charcoal (100g for adults or 2g/kg children) or Fuller's Earth (15% solution; 1 litre 5ml/kg body weight in children). e of gastric lavage without administration of an not shown any clinical benefit. Severe damage may be caused by apparently and healing may be delayed. Medical supervi- ntinue until complete healing has occurred.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire- fighting	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray Do not use a solid water stream as it may scatter and spread fire. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod-
		ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
Specific extinguishing meth- ods	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
Special protective equipment for firefighters Hazchem Code	:	Wear full protective clothing and self-contained breathing apparatus. 2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

Personal precautions, protec- : Refer to protective measures listed in sections 7 and 8.



Version 9.0	Revision Date: 18.10.2021		S Number: 52486924	This version replaces all previous versions.
ge	ncy procedures			
En	vironmental precautions	:	Do not flush into s	akage or spillage if safe to do so. surface water or sanitary sewer system. taminates rivers and lakes or drains inform ities.
	Methods and materials for containment and cleaning up		sorbent material, miculite) and plac / national regulation Clean contaminat Clean with deterg	and then collect with non-combustible ab- (e.g. sand, earth, diatomaceous earth, ver- e in container for disposal according to local ons (see section 13). ed surface thoroughly. ents. Avoid solvents. se of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8. Spray solutions should not be mixed, stored or applied in con- tainers other than plastic, plastic-lined steel, stainless steel or fiberglass.
Conditions for safe storage	:	No special storage conditions required. Keep containers tightly closed in a dry, cool and well- ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
diquat dibromide	85-00-7	TWA	0.5 mg/m3	AU OEL		
	Further inform	ation: Sensitiser				
		TWA (Inhal-	0.5 mg/m3	ACGIH		
		able particu-	(the cation)			
		late matter)				
		TWA (Res-	0.1 mg/m3	ACGIH		
		pirable par-	(the cation)			
		ticulate mat-				
		ter)				
Engineering measures	: THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.					



REGLO	ONE		
ersion .0	Revision Date: 18.10.2021	SDS Number: S152486924	This version replaces all previous versions.
			and/or segregation is the most reliable technical asure if exposure cannot be eliminated.
		The extent of actual risks in	these protection measures depends on the use.
		Maintain air ce standards.	oncentrations below occupational exposure
			sary, seek additional occupational hygiene ad-
	nal protective equip		
Respir	atory protection	limit they mus Suitable respi Respirator wit The filter class imum expecte (gas/vapour/a dling the prod	s are facing concentrations above the exposure at use appropriate certified respirators. ratory equipment: th a half face mask s for the respirator must be suitable for the max- ed contaminant concentration perosol/particulates) that may arise when han- uct. If this concentration is exceeded, self- athing apparatus must be used.
Hand p	protection		
	marks otection	: Tightly fitting s Always wear e	otective equipment required. safety goggles eye protection when the potential for inadvertent rith the product cannot be excluded.
Skin ai	nd body protection	: No special pro	otective equipment required. Ind body protection based on the physical job
Protec	tive measures	over the use o	chnical measures should always have priority of personal protective equipment. ng personal protective equipment, seek appro- ional advice.
		Personal prote national stand	ective equipment should comply with relevant lards
ECTION 9	9. PHYSICAL AND C	HEMICAL PROPER	TIES
Appea	rance	: liquid	
Colou	r	: No data avai	ilable

- Odour : No data available Odour Threshold : No data available
- pH : No data available



/ersior 9.0	n Revision Date: 18.10.2021		S Number: 52486924	This version replaces all previous versions
M	elting point/range	:	No data available	9
Bo	iling point/boiling range	:	No data available	9
Fla	ash point	:	No data available	9
E٧	aporation rate	:	No data available	9
Fla	ammability (solid, gas)	:	No data available	9
	oper explosion limit / Upper mmability limit	:	No data available	9
	wer explosion limit / Lower mmability limit	:	No data available	
Va	pour pressure	:	No data available	
Re	elative vapour density	:	No data available	9
De	ensity	:	1.2 g/cm3	
So	lubility(ies) Water solubility	:	No data available	9
	Solubility in other solvents	:	No data available)
	ntition coefficient: n-	:	No data available	9
	tanol/water Ito-ignition temperature	:	No data available	9
De	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, dynamic	:	No data available	9
	Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	No data available)
O	kidizing properties	:	No data available	
Pa	irticle size	:	No data available	3

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability		See section "Possibility of hazardous reactions". Stable under normal conditions.
Possibility of hazardous reac- tions	:	Corrosive in contact with metals
Conditions to avoid	:	No decomposition if used as directed.



REGLONE Version Revision Date: SDS Number: This version replaces all previous versions. 18.10.2021 S152486924 9.0 Incompatible materials Aluminium • Mild steel Iron No hazardous decomposition products are known. Hazardous decomposition : products SECTION 11. TOXICOLOGICAL INFORMATION Exposure routes Ingestion 1 Inhalation Skin contact Eye contact Acute toxicity Product: Acute oral toxicity LD50 (Rat, female): ca. 550 mg/kg 1 Remarks: Based on data from similar materials Acute inhalation toxicity LC50 (Rat, male and female): 0.64 mg/l : Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations. Remarks: Nose bleeding and soreness of the throat may result from spray mist or dust trapped on the nasal mucosa. Based on data from similar materials LD50 (Rat, male and female): > 5,000 mg/kg Acute dermal toxicity : Remarks: Based on data from similar materials Components: diquat dibromide: Acute oral toxicity LD50 (Rat, female): 399.75 mg/kg Remarks: Lethal dose for man is approximately 4-6g of diquat (equivalent to approximately 60mg/kg). May cause nausea, vomiting, abdominal pain and diarrhoea within a few hours of swallowing. Ulceration of lips, mouth, throat and intestine may follow within 24-48 hours. Kidney failure and liver damage may occur; in severe cases circulatory collapse; coma or death/cardiac arrest. LC50 (Rat, male): 0.226 mg/l Acute inhalation toxicity : Exposure time: 4 h Test atmosphere: dust/mist LD50 (Rat, male and female): > 792 mg/kg Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity



Version	Revisi
9.0	18.10.

ion Date: .2021

Skin corrosion/irritation

Product:

Species :	Rabbit
Result :	No skin irritation
Remarks :	Based on data from similar materials

Components:

diquat dibromide:

Species Result Remarks	Rabbit Irritating to skin. Expert judgement May also cause discoloration, cracking and loss of nails. Nor- mal growth follows without dolay.
	mal growth follows without delay.

Serious eye damage/eye irritation

Product:

Species	:	Rabbit
Result	:	No eye irritation
Remarks	:	Based on data from similar materials

Components:

diquat dibromide:

Species Result Remarks	 Rabbit Eye irritation Expert judgement This material has a delayed eye irritation effect. May lead to ulceration of cornea and conjunctival epithelium giving rise to secondary infection. Although healing may be slow, the injury
	is superficial and with proper medical care recovery will be

complete, even in severe cases.

Respiratory or skin sensitisation

Product:

Species	:	Guinea pig
Result	:	Did not cause sensitisation on laboratory animals.
Remarks	:	Based on data from similar materials

Components:

diquat dibromide:

•	Guinea pig May cause sensitisation by skin contact.
---	--



/ersion 9.0	Revision Date: 18.10.2021		0S Number: 52486924	This version replaces all previous versions
Chro	nic toxicity			
Germ	n cell mutagenicity			
Com	ponents:			
Germ	at dibromide: n cell mutagenicity - ssment	:	Animal testing o	did not show any mutagenic effects.
Carc	inogenicity			
Com	ponents:			
-	at dibromide: nogenicity - Assess-	:	No evidence of	carcinogenicity in animal studies.
Repr	oductive toxicity			
Com	ponents:			
-	at dibromide: oductive toxicity - As- nent	:	No toxicity to re	production
STO	Γ - single exposure			
Com	ponents:			
•	at dibromide: ssment	:		or mixture is classified as specific target organ exposure, category 3 with respiratory tract
STO	Г - repeated exposure			
Com	ponents:			
Targe	at dibromide: et Organs ssment arks	: :	toxicant, repeat Ocular effects (or mixture is classified as specific target organed and exposure, category 1. cataracts) have been reported following long sure of laboratory animals.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

diquat dibromide:



ersion)	Revision Date: 18.10.2021		OS Number: This version replaces all previous version 52486924	
Toxicit	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): Calculated 10.46 mg/l Exposure time: 96 h	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): Calculated 2.49 mg/l Exposure time: 48 h	
Toxicity to algae/aquatic plants		:	ErC50 (Navicula pelliculosa (Freshwater diatom)): Calculate 0.001148 mg/l Exposure time: 96 h	
			NOEC (Navicula pelliculosa (Freshwater diatom)): Calculate 0.0005945 mg/l Exposure time: 96 h	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Pimephales promelas (fathead minnow)): Calculate 0.04726 mg/l Exposure time: 34 d	
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC (Daphnia magna (Water flea)): Calculated 0.0504 Exposure time: 21 d	
Persis	tence and degradabili	ty		
Comp	onents:			
diquat	dibromide:			
Stabilit	ty in water	:	Degradation half life: > 30 d Remarks: Persistent in water.	
Bioaco	cumulative potential			
Comp	onents:			
diquat	dibromide:			
Bioaco	cumulation	:	Remarks: Low bioaccumulation potential.	
Mobili	ty in soil			
Comp	onents:			
diquat	dibromide:			
Distribution among environ- mental compartments Stability in soil		:	Remarks: immobile	
		:	Dissipation time: 11 - 41 y Percentage dissipation: 50 % (DT50) Remarks: Persistent in soil.	
Other	adverse effects			
<u>Comp</u>	onents:			
diquat	dibromide:			



Versio 9.0	on	Revision Date: 18.10.2021		OS Number: 52486924	This version replaces all previous versions.
Results of PBT and vPvB assessment		: This substance is not considered to be persistent, bioaccumu lating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).			
SECTION 13. DISPOSAL CONSIDERATIONS					
D	Dispos	al methods			
W	Vaste 1	from residues	:	cal or used cont Do not dispose Where possible tion.	of waste into sewer. recycling is preferred to disposal or incinera- ot practicable, dispose of in compliance with
С	Contar	ninated packaging	:	cler or designated drumMUSTER of TER collection set Empty contained the local regulated If no landfill is a a disposal pit speciear of waterwated containers and Returnable containers	tainers. spray tank lace cap and return clean containers to recy- ed collection point. Containers marked with the container logo can be taken to a drumMUS- site (02 6206 6868, www.drummuster.org.au). rs can be landfilled, when in accordance with tions. vailable, bury the containers below 500 mm in becifically marked and set up for this purpose ays, desirable vegetation and tree roots. Empty product should not be burnt.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels	:	UN 1760 CORROSIVE LIQUID, N.O.S. (DIQUAT DIBROMIDE) 8 III 8
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft)		UN 1760 Corrosive liquid, n.o.s. (DIQUAT DIBROMIDE) 8 III Corrosive 856



ersion)	Revision Date: 18.10.2021	SDS Number S152486924	This version replaces all previous version:
Packi	ng instruction (passen	. : 852	
	ircraft)		
	G-Code umber	: UN 1760	
Proper shipping name		: CORROS	GIVE LIQUID, N.O.S. DIBROMIDE)
Class Packing group Labels		: 8	- /
		: 111	
		: 8	
EmS	Code	: F-A, S-B	
Marin	e pollutant	: yes	

National Regulations

ADG		
UN number	:	UN 1760
Proper shipping name	:	CORROSIVE LIQUID, N.O.S. (DIQUAT DIBROMIDE)
Class	:	8
Packing group	:	111
Labels	:	8
Hazchem Code	:	2X

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : Schedule 6 Scheduling of Medicines and Poisons	
Prohibition/Licensing Requirements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
Product Registration Number Product Registration Number	: APVMA Approval No. 46534 :

SECTION 16. OTHER INFORMATION

Revision Date



Version	Revision Date:	SDS Number:
9.0	18.10.2021	S152486924

This version replaces all previous versions.

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
		USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.			
		8-hour, time-weighted average Exposure standard - time weighted average			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified: Nch - Chilean Norm: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this 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.

AU / EN