

REGLONE

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 : 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.



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H302 Harmful if swallowed.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs (Eyes) through prolonged or

repeated exposure.

Precautionary statements

Prevention:

P234 Keep only in original packaging.
P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor.

P314 Get medical advice/ attention if you feel unwell. P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

P406 Store in a corrosion resistant container with a resistant

inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

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-



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tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids,

> for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delayed

inflammation of the mouth, throat and oesophagus

Gastrointestinal discomfort

Diarrhoea

Administer either activated charcoal (100g for adults or 2g/kg Notes to physician

body weight in children) or Fuller's Earth (15% solution; 1 litre

for adults or 15ml/kg body weight in children).

NOTE: The use of gastric lavage without administration of an

adsorbent has not shown any clinical benefit.

Eye contact:- Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervision should continue until complete healing has occurred.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

Do not use a solid water stream as it may scatter and spread

Specific hazards during fire-

fighting

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

Wear full protective clothing and self-contained breathing ap-

paratus.

Hazchem Code 2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

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



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gency procedures

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose 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 containers 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	Control parame- ters / Permissible	Basis	
		exposure)	concentration		
diquat dibromide	85-00-7	TWA	0.5 mg/m3	AU OEL	
	Further information: 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.



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Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the

actual risks in use.

Maintain air concentrations below occupational exposure

standards.

Where necessary, seek additional occupational hygiene ad-

vice.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a half face mask

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection

Remarks : No special protective equipment required.

Eye protection : Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Skin and body protection : No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

Personal protective equipment should comply with relevant

national standards

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : No data available

Odour : No data available

Odour Threshold : No data available

pH : No data available



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Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.2 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : See section "Possibility of hazardous reactions".

Chemical stability : Stable under normal conditions. Possibility of hazardous reac- : Corrosive in contact with metals

tions

Conditions to avoid : No decomposition if used as directed.



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Incompatible materials : Aluminium

Mild steel Iron

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Ingestion

Inhalation Skin contact Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): ca. 550 mg/kg

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

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

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.

Acute inhalation toxicity : LC50 (Rat, male): 0.226 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 792 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity



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Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation

Remarks : Based on data from similar materials

Components:

diquat dibromide:

Species : Rabbit

Result : Irritating to skin.
Remarks : Expert judgement

May also cause discoloration, cracking and loss of nails. Nor-

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 : Rabbit
Result : Eye irritation
Remarks : 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:

Species : Guinea pig

Result : May cause sensitisation by skin contact.



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Chronic toxicity

Germ cell mutagenicity

Components:

diquat dibromide:

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

diquat dibromide:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

diquat dibromide:

Reproductive toxicity - Assessment

No toxicity to reproduction

STOT - single exposure

Components:

diquat dibromide:

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

STOT - repeated exposure

Components:

diquat dibromide:

Target Organs : Eyes

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

Remarks : Ocular effects (cataracts) have been reported following long

term oral exposure of laboratory animals.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

diquat dibromide:



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Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): Calculated

10.46 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic 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)): Calculated

0.001148 mg/l

Exposure time: 96 h

NOEC (Navicula pelliculosa (Freshwater diatom)): Calculated

0.0005945 mg/l Exposure time: 96 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): Calculated

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 mg/l

Exposure time: 21 d

Persistence and degradability

Components:

diquat dibromide:

Stability in water Degradation half life: > 30 d

Remarks: Persistent in water.

Bioaccumulative potential

Components:

diquat dibromide:

Bioaccumulation Remarks: Low bioaccumulation potential.

Mobility in soil

Components:

diquat dibromide:

Distribution among environ-

mental compartments

Remarks: immobile

Dissipation time: 11 - 41 y Stability in soil

Percentage dissipation: 50 % (DT50)

Remarks: Persistent in soil.

Other adverse effects

Components:

diquat dibromide:



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Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

tion.

If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Non-returnable containers:

Triple rinse containers.

Add rinsings to spray tank

If recycling, replace cap and return clean containers to recycler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUSTER collection site (02 6206 6868, www.drummuster.org.au). Empty containers can be landfilled, when in accordance with

the local regulations.

If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty

containers and product should not be burnt.

Returnable containers:

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

(DIQUAT DIBROMIDE)

Class : 8
Packing group : III
Labels : 8

IATA-DGR

UN/ID No. : UN 1760

Proper shipping name : Corrosive liquid, n.o.s.

(DIQUAT DIBROMIDE)

Class : 8 Packing group : III

Labels : Corrosive Packing instruction (cargo : 856

aircraft)



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Packing instruction (passen-

ger aircraft)

IMDG-Code

UN number UN 1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

852

(DIQUAT DIBROMIDE)

Class 8 Ш Packing group Labels 8

EmS Code F-A, S-B Marine pollutant yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number UN 1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

(DIQUAT DIBROMIDE)

Class 8 Packing group Ш 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 carcinogens referred to in Schedule 10 of the model WHS Act and Regula-

tions.

Product Registration Number APVMA Approval No. 46534

Product Registration Number

SECTION 16. OTHER INFORMATION

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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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

ACGIH / TWA : 8-hour, time-weighted average

AU OEL / TWA : 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.

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