Safety Data Sheet

Diquat 200SL

Date of issue: 24th June, 2014

1) Identification of Substance:	
Product name:	Diquat 200SL
Active Ingredient(s):	200g/L diquat as the dibromide salt
ACVM Approval:	P8006
EPA Approval:	HSR000446
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adriacp.co.nz
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766
2) Hazards Identification:	
HSNO Classifications:	6.1C, 6.3A, 6.9A, 8.1A, 9.1A, 9.3C
Risk and safety phrases:	6.1C: May be fatal if swallowed, inhaled or absorbed through the skin. 6.3A: May cause skin irritation. 6.9A: May cause eye damage from repeated oral exposure at high doses. 8.1A: This product is corrosive to metal. 9.1A: Very toxic to aquatic organisms. 9.3C: Harmful to terrestrial vertebrates.
3) Composition Details:	
Chemical identity:	Diquat
Chemical identity of ingredients:	

Ingredient:	CAS No.:	Content (%w/v)
Diquat	85-00-7	17 %
Other ingredients determined not to be hazardous	-	to 100%

4) First Aid Measures:	
General Information:	**For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.**
Skin contact:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.

Eye contact:	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
Ingestion:	If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.
Inhalation:	Assure fresh air breathing. Rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice.
Poisoning symptoms:	Swallowing can result in nausea, vomiting, abdominal pain within a few hours of swallowing. Ulceration of lips, mouth, throat and intestine may follow within 24 - 48 hours. Contact with skin will result in irritation. Can cause inflammation and in severe cases blistering of the skin. Contamination of the nails may cause white spots or in severe cases cracking and loss of the nail. Normal growth follows without delay. Nose bleeding and soreness of the throat may result if spray mist is trapped in the nasal passage.
Notes for medical personnel:	**RAPID TREATMENT IS ESSENTIAL.** Treatment: Ensure airway, breathing and circulation are intact. Wash out stomach and test urine and gastric aspirate (if clear) for presence of diquat. Give up to 1 litre of 15% aqueous suspension of Fullers earth orally or via gastric tube, together with a suitable purgative (200ml of an aqueous solution of mannitol). If there is severe mouth ulceration give nothing by mouth until patient's condition has improved. Give intravenous fluids only. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset of corneal ulceration it is advised that patients with paraquat eye injuries are reviewed by a specialist the day after first presentation.
5) Fire-Fighting Measures:	
Specific hazards:	Hazardous decomposition products. Combustion products are toxic and or irritant.
Hazchem code:	2X
Extinguishing media and methods:	Dry chemical extinguisher, foam, carbon dioxide or waterspray (do not use direct jet of water).
Recommended protective clothing:	Wear SCBA and chemical-protective clothing.

6) Accidental Release Measures:	
Personal precautions:	Use protective clothing – eye protection, chemically resistant gloves, boots and overalls. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
Spill procedures:	Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material.
Disposal procedures:	Disposal of the absorbed material will depend upon the extent of the spill. Contaminated material must be disposed of in accordance with all local authority requirements. It is suggested: • For quantities up to 50 litres of product bury in a secure approved landfill site. • For quantities greater than 50 litres seek advice from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
7) Handling & Storage:	
Handling:	Avoid contact with skin and eyes. Ventilation required.
Storage:	Keep out of reach of children. Keep away from heat and protect from sunlight. Protect against freezing.
Regulatory requirements / Approved Handlers:	Product must be tracked. Product must be under the care of an Approved Handler.
Store site requirements:	Signage and secondary containment will be required at sites holding 100 litres or more of any product classified as 9.1A (i.e. Diquat 200SL).
8) Exposure Control / Personal Protection:	
Engineering measures:	
Respiratory protection:	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
Eye protection:	Safety goggles with side-shields.
Hand protection:	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Other protective equipment:	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.

General Safety & Hygiene measures:	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.
9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	Dark brown
Odour:	Characteristic
Melting point/boiling point:	> 100 °C
Density:	1.19g/cm^3
Surface tension:	N/A
pH:	4.1-5.4
Flash point:	n/a
Ignition Temperature:	Not determined
Explosive Limits:	Not determined
Corrosiveness:	Corrosive
Other Data:	
10) Stability & Reactivity:	
Conditions to avoid:	Stable under normal storage conditions
Materials to avoid:	Corrosive to most metals in concentrate form. Not problematic to spray equipment at field rates.
Hazardous reactions:	Not known.
11) Toxicological Information:	
Acute oral toxicity:	LD_{50} > 550 mg/kg (rat)
Acute inhalation toxicity:	LC_{50} (4hr) 0.64 mg/L (rat)
Acute dermal toxicity:	LD_{50} > 5,000 mg/kg (rat)
Skin irritation:	Irritant (rabbit)
Eye irritation:	Irritant.
Sensitisation:	Not expected to cause sensitisation under normal use.
12) Ecological Information:	
Acute fish toxicity:	LC_{50} Rainbow trout (96hr) > 100 mg/L
Toxicity for daphnia:	LC_{50} (48 hr) = 7 mg/L
Toxicity to algae:	EC_{50} (96 hr) = 66 µg/L
13) Disposal Considerations:	
Disposal: AGRECOVERY	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.

14) Transportation Information:	
Rail/road (RID/ADR):	CORROSIVE LIQUID, N.O.S. (Diquat 20%) Class 8 Packing group III UN: 1760 
Sea (IMDG code):	CORROSIVE LIQUID, N.O.S. (Diquat 20%) Class 8 Packing group III UN: 1760 
Air (ICAO/IATA):	CORROSIVE LIQUID, N.O.S. (Diquat 20%) Class 8 Packing group III UN: 1760 

15) Regulatory Information:	
Approved handlers:	This product must be under the care of an approved handler.
Tracking:	Yes.
ACVM controls:	See www.foodsafety.govt.nz for registration conditions.