


## SAFETY DATA SHEET

### Section 1: Identification: Product identifier and chemical identity

<b>Product Identifier:</b>	<b>REGLONE Non-Residual Herbicide</b>
<b>Other Means of Identification:</b>	<b>Proper shipping name:</b> Corrosive Liquid Toxic, N.O.S. (Diquat Dibromide) <b>Applicable only for marine and air transport</b>  <b>Product code:</b> A1412P
<b>Recommended Use:</b>	Herbicide pre-harvest crop desiccation and the control of a wide range of broadleaf weeds in certain crops
<b>Details of manufacturer or importer</b>	<b>Syngenta Australia Pty Ltd</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road</b> <b>MACQUARIE PARK NSW 2113</b> <b>AUSTRALIA</b>
<b>Website:</b>	<b>syngenta.com.au</b>
<b>Phone Number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Phone Number:</b>	<b>24 hours - 1800 033 111</b>

### Section 2: Hazards identification

<b>Classification of the Hazardous Chemical:</b>	Corrosive to metals – Category 1 Acute toxicity (Oral) – Category 4 Acute toxicity (Inhalation) – Category 3 Specific target organ toxicity – repeated exposure – Category 3 Specific target organ toxicity – repeated exposure – Category 1
<b>Signal Word:</b>	Danger
<b>Hazard Statement(s):</b>	H290 May be corrosive to metals. H302 Harmful if swallowed. H331 Toxic if inhaled. H335 May cause respiratory irritation. H372 Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary Statement(s):</b>	P102 Keep out of reach of children. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P311 Call a POISON CENTRE or doctor/ physician. P391 Collect spillage. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container to an approved waste disposal plant.
<b>Hazard Symbols:</b>	

### Section 3: Composition and information on ingredients

SUBSTANCE		
<b>Chemical Identity of Pure Substance:</b>	Diquat dibromide	
<b>Synonym:</b>	PP901	
<b>CAS Number:</b>	85-00-7	

MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (% w/v)
Diquat ion present as diquat dibromide	85-00-7	20
Non-hazardous ingredients	-	to 100

### Section 4: First aid measures

<b>Description of Necessary First Aid Measures:</b>	<p>In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p><b>Ingestion:</b> If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.</p> <p><b>Eye contact:</b> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p><b>Skin contact:</b> Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If irritation persists, call a physician. Wash contaminated clothing before re-use.</p> <p><b>Inhalation:</b> Move person to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poisons Information Centre immediately.</p>
<b>Symptoms Caused by Exposure:</b>	Symptoms include inflammation of the mouth, throat and oesophagus, gastrointestinal discomfort and diarrhoea.
<b>Medical Attention and Special Treatment:</b>	<p>Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children).</p> <p>NOTE: The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit.</p> <p>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.</p>

### Section 5: Fire fighting measures

<b>Suitable Extinguishing Equipment:</b>	<p><b>Small fires:</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p><b>Large fires:</b> Use alcohol-resistant foam or water spray.</p> <p>DO NOT use a solid water stream as it may scatter and spread fire.</p>
<b>Specific Hazards Arising from the Chemical:</b>	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic

<p><b>Special Protective Equipment and Precautions for Fire Fighters:</b></p> <p><b>Hazchem Code:</b></p>	<p>and irritant vapours. Exposure to decomposition products may be a hazard to health.</p> <p>Wear full protective clothing and self-contained breathing apparatus. DO NOT allow run-off from fire fighting to enter drains or water courses.</p> <p>Cool closed containers exposed to fire with water spray.</p> <p>2X</p>
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## Section 6: Accidental release measures

<p><b>Personal Precautions, Protective Equipment and Emergency Procedures:</b></p>	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> <li>• Avoid eye and skin contact</li> <li>• Avoid contamination of waterways</li> </ul> <p>Wear full length clothing and PVC gloves          Keep all bystanders away</p>
<p><b>Environmental precautions:</b></p>	<p>Prevent further leakage or spillage if safe to do so.          DO NOT flush into surface water or sanitary sewer system.</p>
<p><b>Methods and Materials for Containment and Clean Up:</b></p>	<p><b>Procedure for spill</b></p> <ol style="list-style-type: none"> <li>(1) Keep all bystanders away</li> <li>(2) Wear full length clothing and PVC gloves</li> <li>(3) Reposition any leaking containers so as to minimise further leakage</li> <li>(4) Dam and absorb spill with an absorbent material (eg sand or soil)</li> <li>(5) Shovel the absorbed spill into drums</li> <li>(6) Disposal of the absorbed material will depend upon the extent of the spill             <ul style="list-style-type: none"> <li>• For quantities up to 50 L of product bury in a secure landfill site</li> <li>• For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established</li> </ul> </li> <li>(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable</li> </ol>

## Section 7: Handling and storage

<p><b>Precautions for Safe Handling:</b></p>	<p><b>MANUFACTURE, PACKAGING AND TRANSPORT:</b>          Avoid skin and eye contact and the inhalation of vapour and mist. Wear overalls, face shield, elbow-length impervious gloves, splash apron and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.          If inhalation risk of vapour or spray exists wear organic vapour respirator meeting the requirements of Standards Australia</p> <p><b>PREPARATION AND USE OF PRODUCT:</b>          Very dangerous. Poisonous if absorbed by skin contact, inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist.          When preparing spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• washable hat</li> <li>• elbow-length PVC gloves</li> <li>• face shield or goggles</li> <li>• half-face respirator or disposable respirator.</li> </ul>
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	If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles, respirator and if rubber wash with detergent and warm water, and contaminated clothing.
<b>Conditions for Safe Storage, Including any Incompatibilities:</b>	Store in the closed, original container in a dry, cool, well ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight.

## Section 8: Exposure controls and personal protection

### ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
<b>National Exposure Standards:</b>	Diquat	0.5 mg/m <sup>3</sup>	TWA
<b>Syngenta Exposure Standards:</b>	Diquat dibromide	0.5 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	8h TWA 15 min STEL
<b>Biological Limit Values:</b>	No biological limits allocated		
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors.		
<b>Personal Protective Equipment:</b>	<p><b>MANUFACTURE, PACKAGING AND TRANSPORT:</b>                      Avoid skin and eye contact and the inhalation of vapour and mist. Wear overalls, face shield, elbow-length impervious gloves, splash apron and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.                      If inhalation risk of vapour or spray exists wear organic vapour respirator meeting the requirements of Standards Australia</p> <p><b>PREPARATION AND USE OF PRODUCT:</b>                      Very dangerous. Poisonous if absorbed by skin contact, inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist.                      When preparing spray and using the prepared spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• washable hat</li> <li>• elbow-length PVC gloves</li> <li>• face shield or goggles</li> <li>• half-face respirator or disposable respirator.</li> </ul> <p>If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles, respirator and if rubber wash with detergent and warm water, and contaminated clothing.</p>		

## Section 9: Physical and chemical properties

<b>Appearance:</b>	Dark red brown viscous liquid	<b>Boiling Point/Range:</b>	Approx. 100°C
<b>Odour:</b>	Non-specific	<b>Freezing/Melting Point:</b>	Not available
<b>pH:</b>	4 – 5	<b>Solubility:</b>	Soluble in water

<b>Vapour Pressure:</b>	Not available	<b>Specific Gravity</b>	1.20 g/cm <sup>3</sup> at 20°C
<b>Vapour Density:</b>	Not available		

<b>Flash Point:</b>	>90°C	<b>Explosive Properties:</b>	Not explosive
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	Not applicable	<b>Oxidising Properties:</b>	Not oxidising
<b>Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Not combustible
		<b>Corrosiveness:</b>	Corrosive

## Section 10: Stability and reactivity

<b>Reactivity:</b>	No information available
<b>Chemical Stability:</b>	No information available
<b>Possibility of Hazardous Reactions:</b>	Corrosive in contact with metals
<b>Conditions to Avoid:</b>	No information available
<b>Incompatible Materials:</b>	Aluminium, mild steel, iron
<b>Hazardous Decomposition Products:</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours.

## Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:	
<b>Acute</b>	<p><b>Oral toxicity:</b>      <b>HARMFUL</b>                      Tests on rats indicate this product is harmful following single doses of a similar formulation.                      LD<sub>50</sub> ca. 550 mg/kg</p> <p><b>Dermal toxicity:</b>      <b>LOW TOXICITY</b>                      Tests on rats indicate this product has a low toxicity following skin contact with a similar formulation.                      LD<sub>50</sub> &gt; 5,000 mg/kg</p> <p><b>Inhalation:</b>      <b>TOXIC</b>                      Tests on rats indicate this product is toxic due to inhalation of a similar formulation.                      LC<sub>50</sub> (4h) = 0.64 mg/L air                      Nose bleeding and soreness of the throat may result from spray mist or dust trapped on the nasal mucosa.</p> <p><b>Skin irritation:</b>      <b>MODERATE IRRITANT</b></p> <p><b>Eye irritation:</b>      <b>SLIGHT IRRITANT</b></p> <p><b>Sensitisation:</b>      <b>NOT A SENSITISER</b></p>
<b>Chronic</b>	<b>Diquat dibromide technical</b> has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic or reproductive effects. Ocular effects (cataracts) have been reported following long term oral exposure of laboratory animals.

## Section 12: Ecological information

<b>Ecotoxicity</b>	The following are based on tests conducted with the active ingredient
<b>Toxicity to fish:</b>	<b>Slightly toxic to fish</b> <i>Oncorhynchus mykiss</i> (rainbow trout): LC <sub>50</sub> = 21 mg/L as diquat ion, 96 h (static)
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	<b>Moderately toxic to aquatic invertebrates</b> <i>Daphnia magna</i> (Water flea): EC <sub>50</sub> = 5.9 mg/L as diquat ion, 48 h
<b>Toxicity to algae:</b>	<b>Highly toxic to algae</b> <i>Navicula pelliculosa</i> (freshwater diatom): ErC <sub>50</sub> = 0.003 mg/L as diquat ion, 72 h
<b>Persistence and Degradability:</b>	Diquat is persistent in water (Degradation half-life: > 30 d) Diquat is persistent in soil (Degradation half-life: 11 - 41 y).
<b>Mobility in Soil:</b>	Diquat is immobile in soil.
<b>Bioaccumulative Potential:</b>	Diquat does not bioaccumulate

## Section 13: Disposal considerations

<b>Disposal Methods:</b>	<p><b>Non-returnable containers</b>              Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If no facility is available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with Local, State or Territory government regulations. DO NOT burn empty containers or product.</p> <p><b>Returnable containers</b>              Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
<b>Special Precautions for Incineration or Landfill:</b>	Not applicable

## Section 14: Transport information

<b>LAND TRANSPORT</b>			
ADG			
<b>UN Number:</b>	1760	<b>Packing Group:</b>	III
<b>UN Proper Shipping Name:</b>	Corrosive Liquid Toxic, N.O.S. (Diquat Dibromide)	<b>Special Precautions for User:</b>	None allocated
<b>Transport Hazard Class:</b>	8	<b>Hazchem or Emergency Action Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b> IMDG			
<b>UN Number:</b>	1760	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Corrosive Liquid Toxic, N.O.S. (Diquat Dibromide)	<b>Packing Group:</b>	III
<b>Transport Hazard Class:</b>	8	<b>Environmental hazards for Transport Purposes:</b>	Marine pollutant

<b>AIR TRANSPORT</b> IATA - DGR			
<b>UN Number:</b>	1760	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Corrosive Liquid Toxic, N.O.S. (Diquat Dibromide)	<b>Packing Group:</b>	III
<b>Transport Hazard Class:</b>	8		

### Section 15: Regulatory information

<b>APVMA Product Number:</b>	46534
<b>Poisons Schedule (SUSMP):</b>	6

### Section 16: Any other relevant information

<b>Date of preparation or last revision:</b> March 2017
<b>Source of Data:</b> The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.
<b>Note:</b> This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
<b>CONTACT POINT:</b> Regulatory Affairs Manager, Syngenta Australia Pty Ltd (02) 8876 8444 <b>24 HOURS EMERGENCY CONTACT: 1800 033 111</b>
This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.
<b>DISCLAIMER</b> This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.