

# **SAFETY DATA SHEET**

## **DUWETT® STAINLESS**

Date of Issue: 2 April 2019

## 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Recommended use:	Surfactant for use with acid based plant protection
	products
Supplier:	Etec Crop Solutions Ltd
	PO Box 51584, Pakuranga
	Auckland
	Phone 0800 100 325
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

#### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 

**Required identification Details:** 

Harmful – 6.1E, 6.3B Toxic – 6.4A, 6.5B, 6.8A, 6.9A Environmental - 9.1D HARMFUL – KEEP OUT OF REACH OF CHILDREN TOXIC – may cause sensitization from prolonged skin contact. Repeated oral exposure at high doses may cause reproductive/development damage and damage to the thyroid, liver, kidneys and blood forming system.

HARMFUL – may cause eye irritation and be harmful if swallowed, inhaled or swallowed.

Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/preparation Information on hazardous ingredients			
Common name	CAS No	%	
A. HAZARDOUS Alcohol Ethoxylate	9043-30-5	30 - 60 %	
B. NON-HAZARDOUS			
Polyalkylene Oxide	Trade secret	10 - 30 %	
Polyalkyleneoxide Silane	Trade secret	10 - 30 %	
Polyalkyleneoxide	Trade secret	1 - 5 %	

## **4. FIRST-AID MEASURES**

## Description of necessary first aid measures:

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Effects and symptoms	Aerosol harmful if inhaled. Causes eye and skin irritation.
First-aid measures	Vapor may cause blurring of vision. Repeated ingestion may
	cause damage to the liver, kidneys, thyroid, male and female reproductive system, and blood-forming system. Repeated
	inhalation of aerosol of the neat liquid may cause damage to
	the eyes, blood-forming system, kidneys, thymus, respiratory
	tract, and nasal cavity.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial
	respiration. If breathing is difficult, give oxygen. Get medical
	attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical
5	personnel. Never give anything by mouth to an unconscious
	person. Loosen tight clothing such as a collar, tie, belt or
	waistband. Get medical attention if symptoms appear.
Skin contact:	In case of contact, remove contaminated clothing and shoes,
	immediately flush skin with plenty of water. Wash clothing
	before reuse. Thoroughly clean shoes before reuse. Get
<b>_</b>	medical attention.
Eye contact:	Check for and remove any contact lenses. Immediately flush
	eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.
Notes to a physician:	No specific antedote. Treat symptomatically. Any material
Notes to a physician.	aspirated during vomiting may cause lung injury.
5. FIRE-FIGHTING MEASURES	
HAZCHEM Code:	2W
Extinguishing media :	Foam, dry chemical (CO2) water.
Hazardous thermal	Oxides of carbon
Hazardous thermal (de)composition products:	Oxides of silicon
(de)composition products:	Oxides of silicon Carbon monoxide
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines Exposure Standards:	Not established.
Engineering measures Exposure control measures: Personal Protective Equipment Detail specifications for equipment:	General room ventilation is expected to be satisfactory for use at room temperature. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors at a low level.
Respiratory system:	Respiratory protection not normally required. If airborne concentrations are likely to be excessive, wear an approved respirator.
Skin and body:	Cotton overalls buttoned to the neck and wrist and a washable hat.
Hands:	Wear elbow length PVC gloves.
Eyes:	Safety goggles or face shield
General hygiene:	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, goggles or face shield and contaminated clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour. pH: Vapour Pressure: Boiling Point – C&F: Freezing/melting point: Melting Point Solubility: Specific gravity or density: Information for flammable material: Flashpoint: Octanol/water partition coefficient: Explosion properties: Oxidation properties:

BOILING POINT - C & F:; VAPOR PRESSURE (20 C) (MM HG): < 1 VAPOR DENSITY (AIR=1): > 1 FREEZING POINT: MELTING POINT: PHYSICAL STATE: Liquid ODOR: Mild COLOR: Yellow to amber EVAPORATION RATE (BUTYL ACETATE=1): < 1

Yellow to amber liquid with mild odour No Data <1.0 (mmHg) at 20°C >150oC -20 °C; -4 °F; estimated. -20 °C; -4 °F; estimated Dispersable. 1.0 at 25°C. (1.013 hPa) Not Flammable 110°C Not available Not Explosive Not an Oxidising Agent.

### **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions of use.
Conditions to avoid:	None known.
Materials to avoid:	Normally unreactive; however avoid contact with: Strong bases in the presence of high temperatures. Strong acids Strong oxidizing agents. Materials reactive with hydroxyl compounds.
Hazardous decomposition Products:	Burning can produce the following combustion products:; Oxides of carbon.; Oxides of silicon.; Formaldehyde.; Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.; Acute overexposure to the products of combustion may result in irritation of the respiratory tract.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.
Hazardous polymerization: Specific Data:	Will not polymerise.
Hazardous reactions :	None expected

### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity – Oral : Acute toxicity - Dermal : Acute toxicity – Inhalation: Skin irritation :	No Data No Data Not available Slightly irritating	Species: Rabbit
Eye irritation:	Moderate irritation	Species: Rabbit
Sensitization :	This product is a sensitizer.	Species: Mouse
Chronic toxicity:	Repeat ingestion may cause dama male and female reproductive system.	
Other information :	system. The following information is based on analogy with a similar material:, This material was not mutagenic in three mammalian test systems including the Chinese Hamster Ovary (CHO)/HGPRT gene mutation assay, a micronucleus cytogenetic assay in mice, and an in vitro mammalian cytogenetic test., In a repeated skin application study with rats, this material caused moderate skin irritation which resolved during a post-application recovery period. There was no evidence for percutaneous cumulative or specific organ toxicity, and no effect on male or female reproductive systems., Findings from a 14-day dietary feeding study with rats show that high dosage repeated ingestion of this material causes reversible adverse effects on the male and female reproductive	

tracts. Additional effects seen include increased liver weight, altered blood cytology/chemistry, and thyroid enlargement (primarily hypertrophy, with some hyperplasia). Evidence of partial or complete recovery was found over a 28-day recovery period., Findings from a repeat 9-day aerosol inhalation toxicity study with rats show a no-observable-effect-level (NOEL) of less than 0.025 mg/l. Symptoms of toxicity included rales, gasping, ocular opacity, prostration, hypothermia, reduced body weight gain and food consumption, changes in clinical pathology, decreased thymus weight, and microscopic lesions in the nasal cavity. There was no effect on the male or female reproductive systems. It is not anticipated that the use of aqueous dilutions of this product would result in this type of aerosol exposure.

12. ECOLOGICAL INFORMATION		
Ecotoxicity	Not available	
E.E.L T.E.L	Not established Not established	
13. DISPOSAL CONSIDERATIONS		
Methods of disposal :	Triple rinse container and add to spray tank, burn if circumstances, particularly wind direction, permit, otherwise crush and bury in an approved landfill. Do not contaminate bodies of water with chemical or empty container.	
14. TRANSPORT INFORMATION - Int	ternational transport regulations	
UN number:	Not a Dangerous Good	
Class or Division:	N/A	
Packing Group: Marine Pollutant: Proper shipping name : INTERNATIONAL AIR TRANSPORT	N/A No N/A	
ASSOCIATION (IATA):		
<b>15. REGULATORY INFORMATION</b>		
ACVM Registered Number: HSNO Approval Code:	Not applicable HSNO Group Standard: HSR002503	
16. OTHER INFORMATION		
Additional information:	Original Issue Date: 01 September 2006	
Issued by Etec Crop Solutions Limited Page 5 of 6 (SDS DUWETT Stainless ES504 <mark>)</mark> Product: DUWETT STAINLESS		

#### Disclaimer

#### EXCLUSION OF LIABILITY: PLEASE READ

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

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