



## MATERIAL SAFETY DATA SHEET

ANNEX V

1 PRODUCT AND COMPANY IDENTIFICATION		
Product Name:	Diuron 80 WG	
CHEMICAL NAME	3-(3,4-Dichlorophenyl)-1,1-Dimethyl urea (Diuron)	
CHEMICAL FAMILY	Substituted Urea, Halogen Compound, Aromatic	
Uses:	Insecticide/Agriculture use as specified on the product label	
Company Identification		
<b>Willowood Limited</b>		
Unit 1903-04, North Point Asia Pac-Center, 10 North Point Road, North Point Hong Kong Phone 2571-3011 Fax:2571-3410 Email:sales@willowoodhk.com		
2 COMPOSITION / ACTIVE INGREDIENT INFORMATION		
Ingredients	CAS number	Proportion (%)
Diuron : 3-(3,4-Dichlorophenyl)-1,1-Dimethyl urea (Diuron)	155569-91-8	80 %
Others	--	20%
Ingredients not precisely identified are proprietary or non-hazardous		
3 HAZARDS IDENTIFICATION		
Carcinogenicity N/A		
Toxicity Data Dermal LD50 (Rabbit) = >2,000 mg/kg (Tech)		
Oral LD50 (Rat) = 2,900 mg/kg (Tech)		
TLV 10 mg/m <sup>3</sup> N.F.P.A. Health: 2, Fire 1, Reactivity: 0 (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant) Effects of Overexposure May irritate eyes, nose, throat, and skin.		
<b>EMERGENCY PROCEDURES:</b>		
If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.		
If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.		





## 4 FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling a poison control centre or doctor, or going for treatment.

Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

Notes to Physician: Medical Condition Likely to be Aggravated by Exposure: None known.

## 5 FIRE FIGHTING MEASURES

Flash Point N/A

Extinguishing Media Dry chemical, CO<sub>2</sub>, foam or water spray

Fire Fighting Procedures Wear self-contained breathing apparatus. Use water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

## 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of material leak or spill: Clean up promptly. Do not flush with water, pick up dry by sweeping or other effective means. Avoid breathing dust. Assure protective clothing is worn. Prevent runoff if possible.

## 7 HANDLING AND STORAGE

Precautions To Be Taken In Handling & Storage

KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL.

DIRECTIONS CAREFULLY.

Handling (Personnel): Avoid breathing vapours or mist. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store in a well-ventilated place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.





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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Where eye contact is likely, use chemical splash goggles. Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear. A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point N/A  
Specific Gravity 30 lbs/cu ft  
Vapor Pressure Negligible %  
Volatiles N/A  
Vapor Density N/A  
Solubility in Water Dispersible  
pH 6-8  
Appearance/Odor Brown granules, odorless

## 10 STABILITY AND REACTIVITY

Stability Stable  
Conditions to Avoid Extreme temperatures  
Incompatibility Acids and alkalies  
Hazardous Decomposition Products Toxic oxides of nitrogen and carbon  
Hazardous Polymerization Will not occur





## 11 TOXICOLOGICAL INFORMATION

Eye contact: May irritate the eyes  
Skin contact: The concentrated product may cause minor irritation on contact.  
Inhalation: May cause irritation to the respiratory tract.  
Acute toxicity / Chronic toxicity:  
ORAL : LD50 (rat) : > 300mg/kg  
DERMAL : LD50(rabbit) >2000mg/kg  
Inhalation: LC50 (rat) (4hrs) : > 5mg/l  
Skin irritant : mild  
Eye irritant : mild  
Skin Sensitisation: Product is not a skin sensitizer

## 12 ECOLOGICAL INFORMATION

Do not contaminate dams, waterways, or sewers with this product.  
Persistence/degradability: Average field half life of Diuron is 90-180 days  
Non toxic to bees  
Birds Dietary LC50 (8 d) for bobwhite quail 1730, Japanese quail >5000, mallard ducklings >5000, pheasant chicks >5000 mg/kg diet. Fish LC50 (96 h) for rainbow trout 5.6, bluegill sunfish 5.9, guppies 25 mg/l, Daphnia LC50 (48 h) 12 mg/l. Bees Not toxic to bees

## 13 DISPOSAL

Refer to local government authority for disposal recommendations. Rinse empty container, puncture and recycle or dispose of safely AS PER LOCAL LAWS

## 14 TRANSPORT INFORMATION

Proper shipping Name : Diuron  
Risk Phrase : R48 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
Safety Phrase: S13. Keep away from food, drink and animal feeding stuffs.  
Poison schedule: Not scheduled  
Hazard Category: Harmful



## 15 REGULATORY INFORMATION

### Country/Region Inventory Status

Australia AICS Listed: All the components in this product are listed on the Australian Inventory of Chemical substances.

Risk Phrase : R48 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Safety Phrase: S13. Keep away from food, drink and animal feeding stuffs.

S2. Keep out of reach of children

S22 Do not breathe dust.

S37 wear suitable gloves.

Poison schedule: Not scheduled

Hazard Category: Harmful

Packaging and labeling: Keep out of reach of children, Read safety directions before opening or using.

## 16 OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge. 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, since the conditions of the operations mentioned are beyond our control. 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. Willowood disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.