

## Material Safety Data Sheet

This information is based upon technical information believed to be reliable.

It is subject to revision as additional knowledge and experience as gained.

### Diuron 80% WG

#### 1. Chemical Product / Company Identification

Product Name: Diuron 80% WG

Chemical Name: Diuron; [3-(3,4-dichlorophenyl)-1,1-dimethylurea]

Chemical Family: Substituted Urea Herbicide

Usage: Suspension Concentrate Herbicide

Manufacturer: Ningxia Wynca Technology Co., Ltd.

Add.: Taisha Industrial Park, Pingluo, Ningxia, China 753401

Emergency telephone call: 86-0952-3950099

#### 2. Composition/Information on Ingredients

##### Chemical nature

Water dispersible granule (WG)

Diuron 80% WG

Material	w/w (%)
Diuron	80
Various additives	12
Other components	Add to 100

#### 3. Hazard identification

**Health Hazards:** Harmful if swallowed.

**Physical Hazards:** May release irritating or toxic fumes if burned.

**Environmental Hazards:** Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated. Cover or incorporate spills.

#### 4. First Aid Measures

##### Inhalation

Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.

##### Skin contact

Take off contaminated clothing and shoes immediately. When in contact with the skin, clean with soap and water. If symptoms persist, call a physician.

##### Eye contact

In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice

##### Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Give small amounts of water to drink. Keep body calm, protect against loss of heat. Take medical treatment.

## **Notes to physician**

### **Symptoms**

Local: irritant effects

Systemic: The absorption of this product into the body may lead to the formation of methaemoglobin, in sufficient concentration, causes cyanosis., If large amounts are ingested, the following symptoms may occur:., dizziness, headache

### **Risks**

Danger of formation of methaemoglobin.

### **Treatment**

Local treatment:

Treat symptomatically.

Systemic treatment:

In the event of a mouthful or more being ingested, the following measures should be considered:

Monitoring of cardiac, kidney and red blood cell count.

Observe specific parameters: methaemoglobinemia and serum potassium.

If ingested, irrigate the stomach using activated charcoal in addition.

If methaemoglobin level is less than 20%, administer 100% oxygen. If methaemoglobin level is greater than 20% treat with 100% oxygen and slowly give 1% Methylene Blue/Toluidine Blue solution intravenously, 1-2 mg/kg body weight.

Contraindications: alcohol

Recovery: Spontaneous.

Oxygen, if needed.

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## **5. Fire Fighting Measures**

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### **Suitable extinguishing media**

Water spray

Foam

Dry powder

Carbon dioxide (CO<sub>2</sub>)

### **Specific hazards during fire fighting**

The product itself does not burn.

In the event of fire the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride (HCl)

### **Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

Wear full protective suit.

### **Further information**

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## **6. Accidental Release Measures**

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### **Personal precautions**

Use personal protective equipment.

Evacuate personnel to safe areas.

### **Environmental precautions**

Keep people and animals away.

Do not discharge into the drains/surface water/groundwater.

If spillage enters drains leading to sewage works inform local water company immediately.

### **Methods for cleaning up**

Use mechanical handling equipment.

For disposal, pack in tightly closed containers.

### **Additional advice**

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

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## **7. Handling and Storage**

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### **Handling**

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Avoid dust formation.

Advice on protection against fire and explosion

The product neither sensitive to impacts nor to rub effects and therefore not explosive.

### **Storage**

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions

Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage period 24 Months

Storage temperature 20 - 30 °C

Suitable materials

Paper sac with a polyethylene lined interior

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## **8. Exposure Controls/Personal Protection**

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Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

### **Engineering measures**

See chapter 7; no measures exceeding those mentioned are necessary.

### **Personal protective equipment**

Respiratory protection	Short term: filter apparatus, Filter P3
Hand protection	PVC disposable gloves nitrile rubber

Eye protection	Safety glasses / face shield
Skin and body protection	Light protective clothing, thick material

#### Hygiene measures

- When using, do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.

#### Protective measures

- Avoid contact with skin and eyes.
- Do not breathe dust.

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### 9. Physical and Chemical Properties

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<b>Physical State</b>	Solid, Water dispersible granule
<b>Colour</b>	Gray to White
<b>Odour</b>	Faint
<b>pH</b>	7.0-9.0 at 1% w/w in water
<b>Solubility in Water</b>	Insoluble, but forms a flowable suspension
<b>Density (g/cm<sup>3</sup>)</b>	Pour density: 0.651 g/cm <sup>3</sup> Tap density : 0.708 g/cm <sup>3</sup>
<b>Explosive Properties</b>	None
<b>Oxidising Properties</b>	None

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### 10. Stability and Reactivity

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<b>Conditions to avoid:</b>	None in particular
<b>Materials to avoid:</b>	None under normal conditions of use
<b>Stability:</b>	Stable at ambient conditions

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### 11. Toxicological Information

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<b>Oral toxicity:</b>	LD50>5000mg/Kg (rat).
<b>Dermal toxicity:</b>	LD50 >2000 mg/Kg (rat)
<b>Inhalation toxicity :</b>	LC50>6.875 mg/L (rat).
<b>Skin irritation:</b>	Non-irritation(rabbit).
<b>Eye irritation:</b>	Non-eye irritation (rabbit).
<b>Skin sensitization :</b>	Non-sensitizer(guinea pig).
<b>Carcinogenicity</b>	Data given in this section are for the active ingredient. Classified by EEC as a category 3 carcinogen:-substances which cause concern for man owing to possible carcinogenic effects but in respect of which the information is not adequate for making a satisfactory assessment.
<b>Genotoxicity</b>	Data given in this section are for the active ingredient.Classified by EEC

as a category 3 mutagen:-substances which cause concern for man owing to possible mutagenic effects but where the available information.

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## 12. Ecological Information

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<b>Mobility</b>	Kd=8.3,Koc=813,slightly mobile.
<b>Persistence/Degradability</b>	Soil DT <sub>50</sub> =75.5 days (typical).
<b>Bio-accumulation</b>	Non-bio-accumulation
<b>Aquatic Toxicity</b>	Fish: LC <sub>50</sub> = 6.7 mg/L( Cyprinodon variegatus); Daphnia magna:EC <sub>50</sub> = 5.7 mg/L; Algae:ErC <sub>50</sub> =0.019mg/L(Scenedesmus subspicatus)
<b>Other Toxicity</b>	Birds: LD <sub>50</sub> (14 d) = 1104 mg/kg bw( Colinus virginianus); Bees: Acute contact LD <sub>50</sub> (48 hours) > 100µg/bee,Acute oral LD <sub>50</sub> (48 hours) > 100µg/bee Earthworms: LC <sub>50</sub> (14d) > 798 mg/kg.

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## 13. Disposal Considerations

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Do not contaminate water, food or feed by disposal.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Do not reuse container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or incineration; if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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## 14. Transportation Information

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### ADR/RID/ADNR

UN-No	3077
Labels	9
UN Packaging group	III
ADR/RID-Description	3077, Environmentally hazardous substance, solid, n.o.s (contains diuron 80.0%), 9,12(c), ADR UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIURON)
<b>IMDG-Proper Shipping Name</b>	Not dangerous for transport.
<b>IMDG-Ems Number</b>	None.
<b>IMDG-MFAG Shipping Name</b>	None.
<b>ICAO-Proper Shipping Name</b>	As for UN.

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## 15. Regulation Information

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<b>Risk symbol</b>	Irritant
<b>Hazard Classification</b>	Xi-Irritant
<b>Designated Name</b>	Diuron 80% WG (contains diuron 80.0%)
<b>R phrases</b>	36/38-Irritating to eyes and skin
<b>S phrases</b>	22-Do not breath dust. 26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37-Wear suitable protective clothing and gloves. 45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Control of Pesticides Regulations 1986:</b>	WHEN USING DO NOT EAT, DRINK OR SMOKE
<b>Precautions</b>	WASH CONCENTRATE from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work. DO NOT BREATHE SPRAY KEEP OUT OF REACH OF CHILDREN HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container. KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. EMPTY CONTAINER COMPLETELY AND dispose of safely.

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## 16. Other Information

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### Additional information

This data in this Material Safety Data Sheet only to the specific material designated and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: Zhejiang Xinan Chemical Industrial Group Co., Ltd.

Add: Xinanjiang, Jiande, Zhejiang,311600, China.