



INGENIERÍA INDUSTRIAL S.A DE C.V

MATERIAL SAFETY DATA SHEET COMACY 80 WG

Code: PT 108

Issue date: AUG 2018




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1. Product and Company Identification

| | |
|--|--|
| SGA Producto ID: | Diuron 80 WG |
| Active ingredient | Diuron |
| Formula | Diuron: 3-(3,4-Dichlorophenyl)-1,1-dimethylurea |
| Recommended use of the chemical and restrictions on use. | Herbicide. |
| Supplier: | Ingeniería Industrial S.A. de C.V. Carretera a Tecuaititan Km 0.676 Col. San Miguel Zapotitlán Poncitlán, Jalisco. CP 45977 México www.adama.com/mexico/es Phone: 55248369 |
| Emergency phone number: | In case of poisoning, call the Poisons Information Service (SINTOX). Ph: 5598-6659, 5611-2634, inside Mexico, Toll Free 01 800 00 928 00. Facing 24 hrs. 365 days a year. If transportation accident: Tel (55) 5113 2606, Fax. 5113 2630. |

2. Hazard Identification

| | | |
|---------------------|--|---|
| Main risks | Harmful if swallowed. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure if swallowed. | |
| Signaling elements. |  Toxic |  Irritant |
| |  Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment | |

3. Composition/Information on Ingredients.

| Ingredient | CAS | ONU | EC (EINECS) | Content (% , m/m) |
|--------------|----------|-----|-------------|-------------------|
| Diuron (ISO) | 330-54-1 | --- | 206-354-4 | 78 - 82 |
| Inert | --- | --- | --- | 22 - 18 |

Unidentified inert ingredients are commercial information that is confidential.

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4. First Aid Measures

Eye Contact: Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention

Skin Contact: Remove contaminated clothing and shoes. Wash away remainder with plenty of water.

Ingestion: Wash out with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation: Remove victim to fresh air. If breathing is difficult: Artificial respiration. Get medical attention

Notes to Physician: No specific antidote known. Treat symptomatically and give supportive therapy. Use appropriate protection (see section 8).

5. Fire Fighting Measures

Fire attempt :

Dry chemical powder, water spray, carbon dioxide. In of large dimensions fires: Water, of water mist. In closed areas, use SCBA.

Release toxic smoke:

Carbon dioxide, carbon monoxide, NO, NO₂, Chloride compounds.

6. Accidental Release Measures.

Eye protection: Wear safety goggles or face shield.

Protection of skin and body: Wear adequate protection (see section 8).

Respiratory protection: In closed spaces use SCBA

Methods and materials for containment and cleaning:

Avoid this product to reach the drains, collect with a shovel and dispose in accordance to local regulations, waste must be rinsed with plenty of water. Retrieve and deposit spills in appropriate containers. Dispose this material and its container in an official collection point of special or dangerous wastes.

Eye p
Protec

Metho

7. Handling and Storage

Precautions and conditions for safe operation.

Handling: Ventilation Required

Storage: Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.

Storage: Handle in accordance with good industrial hygiene and safety procedures. Storage away from direct sunlight.

8. Exposure controls / Personal Protection

Exposure Limits TLV: Diuron 10 mg/m³

Engineering Controls: Ventilation Required

Personal Protective Equipment (PPE).

Respiratory Protection: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

Skin Protection: Wear suitable protective clothing, wear safety shoes.



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Hand Protection: Wear suitable gloves

Eye Protection: Wear chemical goggles or safety glasses.

9. Physical and Chemical Properties

| | |
|---|-----------------------------------|
| Appearance (physical state, color, etc.). | Granular Solid, white – off white |
| Odor | Faint Odor |
| pH. | --- |
| Melting / freezing point. °C | 158-159 (Diuron) |
| Flashpoint | --- |
| Log P octanol/water. | 2.8 (Diuron) |
| Flammability limits. | Not flammable |
| Bulk density (g/cc) | 0.6 – 0.64 |
| Explosion properties | Not explosive |
| Ignition temperature. | --- |
| Oxidizing properties. | Not Oxidizing |
| Molecular weight. | --- |

10. Stability and Reactivity

Chemical stability: Stable under normal conditions

Incompatibility: oxidizing agents, acids, alkali.

Decomposition products: Chloride compounds, nitrogen oxides (NO, NO₂), carbon oxides (CO, CO₂).

11. Toxicological Information

Routes of entry:

DL₅₀ Oral Rat [mg/kg]: >2,000

DL₅₀ Dermal Rat [mg/kg]: >2,000

CL₅₀ Inhalation Rat [mg/l/4h]: 2.03 Maximun concentration attainable

Skin Corrosion/Irritation: Middly irritating

Serious eye damage/irritation: Not irritant

Respiratory or skin sensitization : No sensitiezer

Carcinogenicity : (Diuron): EPA group C: Possible human carcinogen.: EU: Carc. Cat. 3

Germ cell mutagenicity: (Diuron): Not Mutagenic

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Reproductivity toxicity: (Diuron): No adverse health effects were noted

Tetarogenicity: (Diuron): Not teratogenic in animal experiments (low dases)

12. Ecological Information

Eco toxicity:

96 H-LC50 - Rainbow trout [mg/l] : 5.6
48 H-EC50 - Daphnia magna [mg/L] : 4.8
72 H-EC50 – Algae [mg/l] : 0.025
LD50 Birds [mg/kg] : Japanese quail = 431.78
Bees LD50 [ug/Bee] : No toxic to bees.

OTHER:

Persistence and degradability: Diuron Soil:

The product is persistent; half-life time (t1/2) 90-180 days.

Mobility: Diuron Soil

Low mobility adsorbed on organic matter and clay. Low risk of underground water contamination.

Bio accumulative potential:

Low bio accumulative potential (log Pow = 2.8)

13. Disposal Considerations

Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.

14. Transport Information

| | |
|---|--|
| UN number. | 3077 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diuron) |
| Class (ADR/IMO/EMS/IATA) | 9 |
| Packing group (ADR/IMO/EMS/IATA) | III |
| H.I. n°: | 90 |
| Marine pollutant (yes/no). | Yes |
| National transport regulations: No additional national regulations are available/required | |

15. Regulatory Information

EU Classification : Xn: Harmful
: N : Dangerous for the environment.
Symbol(s) : According to commission Directive 67/548/EEC,/45/EC and its amendments

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- R Phrase(s)**
- : R22 – Harmful if swallowed.
 - : R40 – Limited evidence of a carcinogenic effect
 - : R48/22 – Harmful: danger of serious damage to health by prolonged exposure if swallowed.
 - : R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s)**
- : S02 – Keep out of the reach of children
 - : S13 – Keep away from food, drink and animal feedingstuffs
 - : S20 – When using do not eat or drink.
 - : S29/35 – Do not empty into drains; dispose of this material and its container in a safe way.
 - : S36/37 – wear suitable protective clothing and gloves.
 - : S46 – If swallowed seek medical advice immediately and show this container or label.
 - : S57 - Use appropriate container to avoid environmental contamination
 - : S61 – Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other Information

Regulations for the Transport of Hazardous Materials and Waste. Secretariat of Communications and Transportation.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). United Nations, 2009.

NOM-002-SCT/2003, List of hazardous substances and materials most commonly transported. 031203

NOM-003-SCT/2008, Characteristics of packaging labels, for the transport of hazardous substances, materials and wastes. 150808

NOM-004-SCT/2008, unit identification systems for the transport of hazardous substances, materials and wastes. 180808

NOM- 010- STPS- 1999. Health and safety conditions in the workplaces where handled, transported processed or stored chemicals that can cause pollution in the working environment.

General Act for the prevention and integrated waste management.

Not regarded as dangerous for OSHA.

Comply with DOT.

NOM-018-STPS-2015, harmonized system for the identification and communication of hazards and risks from hazardous chemicals in the workplace.