



Material Safety Data Sheet (MSDS)
Acilin 25 WP

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: Diflubenzuron 25% w/w
Trade Name: Acilin 25 WP
Formulation type: Wettable powder (WP)
Chemical Name: 1-(4-chlorophenyl) -3-(2,6-diflorobenzoyl)urea
Chemical Formula: C₁₄H₉ClF₂N₂O₂
Molecular Weight: 310.7

PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	CAS #	% w/w
Diflubenzuron tech	[35367-38-5]	25% w/w

Inert ingredient: Up to 1 Kilo gram.

HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW
CAUTION!
MAY CAUSE EYE AND SKIN IRRITATION





FIRST-AID MEASURES:

- Swallowing:** induce vomiting. Rinse mouth with water. Obtain medical attention
 - Inhalation:** Remove to fresh air. Obtain medical attention
 - Skin contact:** Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists
 - Eye contact:** Immediately flush eyes with water and continue washing for several minutes.
- Obtain medical attention if irritation persists**

FIRE-FIGHTING MEASURES: -

Hazardous combustion products

Irritating fumes, Oxides of carbon, Oxides of nitrogen

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear

Self-contained breathing apparatus

Extinguishing media Suitable: CO₂, foam, Dry powder, Water fog

Unsuitable: water spray

ACCIDENTAL RELEASE:

Personal precautions: Wear suitable protective equipment

Environmental precautions: Prevent from entering sewer system, surface water or soil, May be harmful to aquatic life

Methods for cleaning up:

Sweep up and collect in a suitable container for disposal

PERSONAL PROTECTION/SAFTETY:

- Respiratory** : Approved respiration
- Eye and Face** : Safety goggles or face shield.
- Hands** : Gloves.
- Body** : Boots and apron and hat.





Ventilation : provide local exhaust.
Industrial hygiene : Safety shower and eye wash
should be provided at work place.
Do not eat, drink or smoke while
Working. Wash hands before
Meals and after work with soap

STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions

Incompatible materials: Oxidising agents, Strong acids, Strong bases

Hazardous Combustion: Irritating fumes Products Oxides of carbon

Oxides of nitrogen Hazardous polymerization: Will not occur.

HANDLING AND STORAGE:

HANDLING

Handling precautions: Avoid dust formation. Use only with adequate ventilation

STORAGE

Storage requirements: Store in a cool, dry place

PHYSICO-CHEMICAL DATA(product):

State: Wettable Powder / Solid

Color: White

Odor: Odorless

Density: 1 g/cm³ as bulk density

Solubility in water: Dispersion in water

TOXICITY INFORMATION:

Data for active material

Swallowing

Acute toxicity: LD50 Rat

Result : >4640 mg/kg



Skin absorption

Acute toxicity: LD50 Rat Result : >10.000 mg/kg

Inhalation

Acute toxicity: LD50 Rat Result : >2.88 mg/l

Skin contact

Skin irritation: Species: Rabbit Classification: Not irritating

Eye contact

Eye irritation : Species : Rabbit Classification: slightly irritating

Sensitization

Test results Species: Guinea pigs Result: Non sensitizing

Mutagenicity

Assessment : Negative

Carcinogenicity

Assessment : Negative

Toxicity to reproduction / fertility

Assessment : Negative

ECOLOGICAL INFORMATION: -

Animals: In rats, following oral administration, elimination is partly as the unchanged parent compound in the faeces, partly as hydroxylated metabolites (for c. 80%) and as 4-chlorophenylurea plus 2,6-difluorobenzoic acid (for c. 20%). The intestinal absorption is strongly related to the dosage administered - the higher the dosage, the more (relatively) is excreted unchanged in the faeces. See A. Verloop & C. D. Ferrell, ACS Symp. Series, 1977, No. 37, 237.

Plants: Non-systemic. Not metabolised on plants (idem, ibid.).

Soil/Environment: Diflubenzuron is strongly absorbed by soil/humic acid complex and is virtually immobile in soil. Rapidly degraded in soil, with a half-life of <7 days. The principal degradation products are 4-chlorophenylurea and 2,6-difluorobenzoic acid (idem, ibid.).

DISPOSAL CONSIDERATIONS:

General : Avoid discharge to sewers and natural waters. Bury in a landfill or incinerate in a furnace in accordance with applicable national and local regulations.





Non-cleaned : Empty drums should be decontaminated and either passed to an packages approved drum reconditioned or destroyed. Containers that cannot be cleaned must be treated as waste.

- Empty container retains product residue.
- Observe all hazard precautions.
- Do not distribute or make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from containers by triple rinsing and puncture or otherwise destroy empty containers before disposal.
- Do not contaminate waterways by cleaning of equipment or disposal of wastes

TRANSPORT INFORMATION:

Proper shipping name: Environmentally hazardous substance, solid, N.O.S.

Class: 9

UN No. : 3077

Packing Group: III

Hazard Number: 90

