



## 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:** C<sub>14</sub>H<sub>9</sub>ClF<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

**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:** CO<sub>2</sub>, 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:

**Color:** white to off-white powder

**Physical state:** powder

**Odor:** odorless

**PH:** 7 - 8

**Flammability:** non flammable

**Explosivity:** non explosive

**Corrosivity:** non corrosive

**Density:** 2.09 g/cm<sup>3</sup> at 25°C





## 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

