

SAFETY DATA SHEET

SUMIMAX 50 WP

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT : Sumimax 50 WP Herbicide
USE : A herbicide for pre-emergence broad-spectrum control of weeds particularly in or close to water

COMPANY IDENTIFICATION:

PT. Nufarm Indonesia
Plaza Aminta Suite 802, 8th Floor
Jl. Letjend TB. Simatupang Kav. 10
Jakarta Selatan - 12310

Emergency Phone : - Office Jakarta +62-21-75904844
- Plant +62-254-5750061

Email :

2. HAZARD IDENTIFICATION



Signal Word : DANGER

Hazard Statement

H360D : May damage the unborn child
H400 : Very toxic to aquatic life
H400 : Very toxic to aquatic life with long lasting effects (Warning Hazard to the aquatic environment, long-term hazard)

Precautionary Statement

P260 : Do not breathe dust/fume/gas/mist/vapors/spray
P273 : Avoid release to the environment

P314 : Get medical advice/attention if you feel unwell

P391 : Collect spillage

Disposal Precautionary Statements

P501 : Dispose of contents/container

Source: European Chemicals Agency (ECHA)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name : Flumioxazin 50 WP

Chemical Name : 2-(7-fluoro-3-oxo-4-prop-2-ynyl-1,4-benzoxazin-6-yl)-4,5,6,7-tetrahydroisindole-1,3-dione

Chemical Formula : $C_{19}H_{15}FN_2O_4$

Molecular Weight : 289.8

Type of formulation : Watable Powder (WP)

Ingredients	Cas No	Percentage
Flumioxazin	103361-09-7	50
Carrie etc	-	Up to 100

4. FIRST AID MEASURES

General : In all cases of doubt or when symptoms persist, seek medical attention. Remove contaminated, soaked clothing immediately and safety dispose it

Inhalation : Move person to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.

Skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.

Eye contact : Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.

- Remove contact lenses.
Immediate medical attention is required.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting
- Medical advice** : There is no specific antidote available.
Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Extinguishing media** : Use Carbon dioxide (CO₂), foam, dry chemical.
- Fire/Explosion Hazard** : Firefighters and other who may be exposed to products of combustion should wear full fire fighting turn out and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use
- Fire-fighting Equipment** : Wear protective pressure self-contained breathing apparatus with full clothing. Remain upwind. Avoid breathing smoke.
- Hazard Combustion Products** : In the event of fire the following may be toxic and corrosive product such carbon monoxide (CO), Nitrogen oxides (NO_x)

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL

- Large spill** : Dyke around spill as necessary. If wet, absorb product with a clay-based absorbent.
Remove dry product, absorbent and contaminated soil for disposal in accordance with applicable local regulations.
- Small spill** : Remove contaminated soil and place in containers for disposal in accordance with applicable local regulations.
Avoid contamination of water bodies during cleanup and disposal. Personal protective equipment is not needed to cleanup land spills.
- Spillage onto Hard Surface** : Limit area of spillage by barricading if necessary. Sweep up or vacuum, and place product into containers for disposal in accordance with applicable local regulations.
Clean surface with water

Spillage into Water : Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the Flumioxazin value to a negligible level.

7. HANDLING AND STORAGE

Handling : Avoid breathing dust. Keep away from heat, sparks and open flame, no smoking. avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Keep out of reach of children

Storage : Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged in direct sunlight

Fire and explosion prevention : This product may cause dust explosion. Fine dust particles can form explosive mixtures with air

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	OSHA	ACIGH
Flumioxazin	none	none
Carrier	none	none

Personal protective equipment – End user

General advice : Eye wash facility and safety shower should be available

Respiratory : General precautions for handling of chemical should be Applied, if handling in an enclosed environment where dust or mist may exceed acceptable levels, wear NIOSH approved air-purifying respirator approved for pesticides

Hand protection : Elbow-length PVC or nitril gloves

Eye protection : Goggles

Skin and body protection : Cotton overall buttoned to the neck and wrist washable hat

Engineering Controls

Advice on safe handling use only in area provided with appropriate exhaust ventilation

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Fine powder
Odour	: Not characteristic
pH	: 6 (5% in water, 22°C)
Density / Bulk density	: 0.37 g/ml
Flash point	: Not applicable
Freezing/melting point	: Not applicable
Boiling point	: Not applicable
Solubility	: Dispersible in water
Vapour pressure	: Not applicable

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions
Condition to avoid	: Avoid high temperature, direct sunlight, heat, flames and sparks
Incompatible material	: Strong oxidizing agent, strong acids, strong bases
Hazardous Decomposition Products	: May produce gases such as nitrogen compounds, fluorine compounds or oxides of carbon and nitrogen
Hazardous reactions / Polymerization	: Product will not undergo polymerization

11. TOXICOLOGICAL INFORMATION**Acute Toxicologi**

Oral LD₅₀ (rat)	: > 5,000 mg/kg
Dermal LD₅₀ (rabbit)	: > 2,000 mg/kg
Inhalation LC₅₀ (rat)	: 0.97 mg/l
Eye irritation	: Mild irritant
Skin irritation	: Mild irritant

Sensitization (guinea pig): Not available

Carcinogen Status

OSHA : Not listed
NTP : Not listed
IARC : Not listed

Toxicity of Flumioxazin Technical

Mutagenicity : Flumioxazin Tech was not mutagenic

12. ECOLOGICAL INFORMATION

This product is toxic to fish and aquatic organisms. It is not toxic to birds or bees. Do not contaminate stream, rivers or waterways with the product or used containers

Ecotoxicity Flumioxazin Tech

Fish toxicity : LC₅₀ (96 h), Rainbow trout 2.3 mg/l
LC₅₀ (96 h), Bluegill . > 21 mg/l
EC₅₀ (48 h), Daphnia .> 6 mg/l
LC₅₀ (96 h), Sheepshead Minnow.> 4.7 mg/l
LC₅₀ (96 h), Mysid Shrimp, 0.23 mg/l

Avian Toxicity (Tech) : Oral LD₅₀ Bobwhite quail, 2,250 mg/kg
Dietary LC₅₀, Bobwhite quail, 5,620 ppm
Dietary LC₅₀, Mallard duck, 2,250 ppm

BEE Toxicity : Contact LC₅₀, 105 µg/bee

13. DISPOSAL CONSIDERATIONS

When returnable container is empty or content no longer required it to the point of purchase. For non-returnable containers, triple or (preferably) pressure rinse them before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product via a reputable disposal contractor to an approved landfill.

14. TRANSPORT INFORMATION

ICAO/IATA

Un number : 3077
Class : 9
Packing group : III
Marine Pollutan : Yes
Description of the goods : Environmentally Hazardous Substance, Solid. N.O.S
(Flumioxazin mixture)\

IMDG

Un number : 3077
Class : 9
Packing group : III
Marine Pollutan : Yes
Description of the goods : Environmentally Hazardous Substance, Solid. N.O.S
(Flumioxazin mixture)

15. REGULATORY INFORMATION**National Fire Protection Association – Hazard Rating**

Flammability : 1
Health : 1
Reactivity : 0

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

16. OTHER INFORMATION

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification.

The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

Reference

- **Pub Chem**, Flumioxazin, US National Library of Medicine. National Center for Biotechnology Information

17. REVISION LOG

No.	Revision Date	Description	Revised By:
00	07 Mei 2019	New SDS	Erwin P. Tanjung