

MATERIAL SAFETY DATA SHEET

PRODUCT : Buprofezin 70% DF

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Buprofezin 70% DF
Active Ingredient : Buprofezin
Chemical Name of Active Ingredient (IUPAC) : (EZ) -2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4- one
Chemical Family of A. I. : Insecticide
Molecular Formula of A. I. : C₁₆H₂₃N₃O
Molecular Mass of A. I. : 305.4 g/mol
Manufacturer & Supplier : M/s United Chemicals
Head Office: B-371, 1st Floor, Meera Bagh, New Delhi, India
Factory: 15/1, 15/2, 15/3, industrial Area, Vidisha, M.P
Telephone Number : +91-11-25258770

Section 2. Composition / Information on Ingredients

Identity	% W/W content
Buprofezin,a.i.	70.00% w/w
Other Ingredients	30.00% w/w
Total	100.00% w/w

Section 3. Hazards Identification

Precautionary Statement:

P260 Do not breathe vapours

P273 Avoid release to the environment

P314 Get medical advice/attention if you feel unwell

P501 Dispose of contents/containers to KualitiAlam or other DoE authorized party

Hazard Statement: H373 May cause damage to organs through prolonged and repeated exposure.

Section 4. First Aid Measures

General advice: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

Call a poison control center or physician for treatment advice.

On skin contact: Wash thoroughly with soap and water.

Call a poison control center or physician for treatment advice.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. If swallowed, seek medical advice immediately and show this container or label.

Do not induce vomiting unless told to by a poison control center or doctor.

Call a poison control center or physician for treatment advice. Take patient to hospital immediately. Medical monitoring for at least 7 days.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), chemical foam, dry chemical, aqueous film forming foam.

Specific Hazard During Fire: Evolves NO_x and CO_x . Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

Section 6. Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Environmental Precautions: Avoid release to the environment. Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the

slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

Section 7. Handling & Storage

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapours. Avoid release to the environment.

Conditions for Safe Storage: Store in a well ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces - No smoking.

Incompatibles: None known.

Section 8. Exposure Control, Personal Protection

Personal protective equipment Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

Section 9. Physical and Chemical Properties

Appearance / state	:	Tan solid
Color	:	Tan colored

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Odor	:	Faint odour
Boiling point	:	252.3°C (Buprofezin)
Vapour Pressure	:	4.2 x 10 ⁻⁵ Pa at 20°C (Buprofezin)
pH	:	5-8
Flash Point	:	NA
Soluble in Water	:	637 µg/L at 20°C

Section 10. Stability & Reactivity

Reactivity: Combustion evolves NO_x and CO_x .

Chemical Stability: The material is stable under normal storage condition

Hazardous Reaction: No data

Condition to Avoid: Direct sunlight, excessive heat

Section 11. Toxicological Information

Route(s) of Entry

Ingestion: LD ₅₀ , oral, rat	:	5000mg/kg body weight
Skin: LD ₅₀ , dermal, rat	:	>2000 mg/kg body weight
Inhalation: 4 hour LC ₅₀ , rat	:	> 2.2 mg/L air
Skin Irritation	:	Slight irritant to skin
Eye Irritation	:	Mild irritant to eyes
Skin Sensitization	:	Non- sensitizer to skin (guinea pig)

Section 12. Ecological Information

Environmental Precautions: For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

Section 13. Disposal Consideration

Must be sent to a suitable incineration plant, observing local regulations. Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Section 14. Transport Information

IMDG Classification

Shipping name : Pesticide, solid, Toxic, N.O.S.
Class : 9
Packing group : III
UN number : 3077
Marine pollutant : Yes

Section 15. Regulatory Information

Classification: Specific target organ toxicity – repeated exposure
category 2 Chronic aquatic toxicity category 3

Signal Word: Warning

Pesticides Act: Class III

Classification: Harmful

Section 16. Other Information

The information presented in this MSDS is based on available data from various reliable sources and is believed to be faithful and correct to our knowledge. However, UNITED CHEMICALS makes no guarantee or warranty, regarding the accuracy and completeness of data or the results obtained from the use or reliance upon the information.

Safety Division : UNITED CHEMICALS, SAFETY DIVISION