



MAKHTESHIM
CHEMICAL WORKS LTD.

MATERIAL SAFETY DATA SHEET

Page : 1 of 4

Revised edition no : 3

Date : 16 / 1 / 2012

Supersedes : 21 / 2 / 2011

BANJO 500 SC

R-18165.MCW

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Relevant identified uses : Fungicide
Substance name : Fluazinam : 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine
Common name of active ingredients : Fluazinam
Chemical formula : Fluazinam : C₁₃H₄Cl₂F₆N₄O₄
Company identification : Makhteshim Chemical Works Ltd.
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SECTION 2. Hazards identification

Human health hazards : Possible risk of harm to the unborn child.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

Components : This product is considered to be hazardous and contains hazardous components.

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Fluazinam	: 500 g/l	79622-59-6	-----	-----	----	Repr. Cat. 3; R63 N; R50-53
Polyarylphenyl ether sulphate ammonium salt	: < 5 %	119432-41-6	-----	-----	----	Xi; R36 R52-53

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a doctor in the event of any complaints.
Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Seek medical attention immediately.
Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Consult an eye specialist.
Ingestion : Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Consult a doctor.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.

SECTION 5. Fire-fighting measures

Suitable extinguishing media : dry chemical , carbon dioxide , water fog , water spray , foam .
Specific hazards : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides , hydrogen chloride , fluorine compounds .
Protection against fire : Wear suitable protective clothing. Self-contained breathing apparatus.
Special procedures : Fight fires from a protected location . Dike fire control water for later disposal.

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SECTION 6. Accidental release measures

- For emergency responders** : Use appropriate protection (see section 8).
- Environmental precautions** : Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.
- Clean up methods** : In the event of minor spillage: Absorb in sand or other inert material. Use appropriate container to avoid environmental contamination.
In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

SECTION 7. Handling and storage

- Handling** : Do not breathe fumes. Avoid all unnecessary exposure.
- Storage** : Keep locked up. Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Keep only in the original container in a cool, well ventilated place. Keep away from direct sunlight.
- Packing** : Multi-layer high density polyethylene extrusion blow containers.

SECTION 8. Exposure controls/personal protection

- TLV® -TWA [mg/m³]** : Not established
- : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash clothing before re-using.
- **Respiratory protection** : During spraying wear suitable respiratory equipment.
 - **Hand protection** : PVC gloves
 - **Skin protection** : Wear suitable protective clothing and chemical resistant boots.
 - **Eye protection** : Chemical goggles or face shield.

SECTION 9. Physical and chemical properties

- Physical state at 20 °C** : Liquid (Suspension concentrate)
- Colour** : Yellow
- Odour** : Odourless
- pH value** : 7 - 8.13
- Flammability** : Not flammable
- Specific gravity** : 1.24 - 1.30
- Solubility in water** : Miscible
- Log P octanol / water at 20°C** : Kow = 4.95 (pH 4), 4.87 (pH 7), 3.91 (pH 9) at 25°C.
- Explosive Properties** : Not explosive

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SECTION 10. Stability and reactivity

- Chemical stability** : Stable under normal conditions.
- Hazardous decomposition products** : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides , hydrogen chloride , fluorine compounds .
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Protect from sunlight , open flame , sources of heat .

SECTION 11. Toxicological information

- Rat oral LD50 : > 2000
- Dermal, Rat LD50 [mg/kg] : > 2000
- Rat inhalation LC50 [mg/l/4h] : 4.42 Maximum concentration attainable. , Not adequate for classification.)
- Dermal irritation (rabbit)** : Not irritating
- Eyes irritation (rabbit)** : Not irritating
- Sensitization** : Non sensitizer
- Toxic for reproduction** : Fluazinam : Repr. Cat. 3 : Possible risk of harm to the unborn child.

SECTION 12. Ecological information

- 96 H-LC50 - Rainbow trout [mg/l] : 0.236
- 48 H-EC50 - Daphnia magna [mg/l] : 0.36
- 72 H-EC50 - Algae [mg/l] : 0.052
- LD50 Birds [mg/kg] : > 2000 (Japanese quail)
- Bees LD50 [µg] : > 100



SECTION 13. Disposal considerations

- General** : Dispose in a safe manner in accordance with local/national regulations.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

SECTION 14. Transport information

- UN N° : 3082
- IMO-IMDG - class or division : 9
- IMDG-Marine pollution : Marine pollutant - Polluant marin

SECTION 15. Regulatory information

- EU Classification** : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations :
- Symbol(s)**  
- R Phrase(s)** : Xn: Xn : Harmful.
N: N : Dangerous for the environment.
R63 - Possible risk of harm to the unborn child.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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SECTION 15. Regulatory information (continued)

S Phrase(s) : S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S23 - Do not breathe gas/fumes/vapour/spray.
S35 - This material and its container must be disposed of in a safe way.
S36/37 - Wear suitable protective clothing and gloves.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16. Other information

List of relevant R phrases (heading 3) : R36 - Irritating to eyes.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 - Possible risk of harm to the unborn child.

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Recommended uses and restrictions : Fungicide

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