
MATERIAL SAFETY DATA SHEET OF

FLUAZINAM 500 G/L SC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Fluazinam 500g/L SC

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

Fax: + 86 21 63065878

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Sensitisation – skin: Category 1B (H317)

Toxic to reproduction: Category 2 (H361d)

Hazards to the aquatic environment, acute: Category 1 (H400)

chronic: Category 1 (H410)

Health hazardsFluazinam can cause allergic sensitisation and is suspected of causing birth defects.

Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Hazard pictograms



Signal wordWarning

Hazard statements

H317May cause an allergic skin reaction.

H361dSuspected of damaging the unborn child.

Version: 1.0 Issue date: June 1, 2021

H410Very toxic to aquatic life with long lasting effects.

Supplementary hazard statement

EUH401To avoid risks to human health and the environment, comply with the instructions of use.

Precautionary statements

P261Avoid breathing vapours.

P280Wear protective gloves, protective clothing and eye/face protection.

P302+P352IF ON SKIN: Wash with plenty of soap and water.

P308+P313IF exposed or concerned: Get medical attention/advice.

P362+P364Take off contaminated clothing and wash it before reuse.

P501Dispose of contents/container as hazardous waste.

2.3. Other hazards

None of the ingredients in the product meets the criteria for being PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: Suspension Concentrate (SC)

Molecular formula: C₁₃H₄Cl₂F₆N₄O₄

IUPAC name: 3-chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-α,α,α- trifluoro-2,6-dinitro-p-toluidine

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO.	PROPORTION (g/l, w/v)
Fluazinam	79622-59-6	500
Other ingredients	-	Up to 1L

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult

Version: 1.0 Issue date: June 1, 2021

a physician or call for ambulance.

In case of skin contact

Clothing contaminated with material must be removed immediately and all skin washed thoroughly with water and soap. Get medical attention if irritation develops.

In case of eye contact

Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Consult a physician.

If swallowed

Let the exposed person rinse mouth and let him/her drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Never give anything by mouth to an unconscious person. Consult a physician.

Advice to physician:

There is no specific antidote. Treat symptomatically and supportively as and when required.

5. FIRE FIGHTING MEASURES

Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

Special hazards arising from the substance or mixture

hydrogen fluoride, hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, sulphur dioxide and various fluorinated and chlorinated organic compounds.

Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Version: 1.0 Issue date: June 1, 2021

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use. Do not take internally.

Storage: Store in original container in a secured, cool, dry place separate from food and feed. DO NOT store near heat or open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment:

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, boots, and a NIOSH approved half face mask with organic vapour cartridge + dust/mist prefilter.

Hygiene Measures: Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

Version: 1.0 Issue date: June 1, 2021

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : Light yellow

Odor : Odorless

pH : 5.0-8.0

Corrosive: No corrosive

Oxidisation: No oxidisation

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None known.

Conditions to avoid

Heating of the product will evolve harmful and irritant vapours

Incompatible materials

None known.

Hazardous Hazardous Polymerization:

Polymerisation will not occur.

11. TOXICOLOGICAL

Acute toxicity (For active ingredient)

Oral Acute oral LD50 for male rats 4500, female rats 4100 mg/kg.

Skin and eye toxicity: Acute percutaneous LD50 for rats >2000 mg/kg.

Irritaiton: Irritating to eyes; slightly irritating to skin (rabbits).

Sensitization: Tech. is a skin sensitiser, but purified material is not (guinea pigs).

Inhalation LC50 for rats >1.1 mg/l.

Chronic toxicity:

NOEL Chronic NOAEL for dogs 1.0 mg/kg daily, for male rats 1.9 mg/kg daily; carcinogenicity for male mice 1.1 mg/kg daily (EPA Fact Sheet).

Version: 1.0 Issue date: June 1, 2021

12. ECOLOGICAL INFORMATION

For active ingredient

Birds Acute oral LD50 for bobwhite quail 1782, mallard ducks ≥ 4190 mg/kg. Dietary LC50 (5 d) for bobwhite quail > 1244 , mallard ducks > 1230 mg/kg.

Fish LC50 (96 h) for rainbow trout 0.036 mg/l.

Daphnia LC50 (48 h) 0.22 mg/l.

Algae EC50 (96 h) for *Selenastrum capricornutum* 0.16 mg/l.

Other aquatic spp. EC50 for oysters 0.0047, mysid shrimps 0.044 ppm.

Bees LD50 (oral) > 100 $\mu\text{g}/\text{bee}$; (contact) > 200 $\mu\text{g}/\text{bee}$.

Worms LC50 (28 d) > 1000 mg/kg.

13. DISPOSAL CONSIDERATION

Triple rinse container and add rinsate to spray tank, burn, if circumstances, especially wind direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by using in accordance with label directions. Dispose of liquid contaminated material/or contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulations.

14. TRANSPORT INFORMATION

DOT

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam)

Class : 9

Packing group : III

IATA

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam)

Class : 9

Packing group : III



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com

Website: www.bosmanagrochem.net

Version: 1.0 Issue date: June 1, 2021

IMDG

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (fluazinam)

Class : 9

Packing group : III

15. REGULATORY INFORMATION

Follow all local, international laws, regulations.

16. OTHER INFORMATION

Version: 1.0

Issue date: June 1, 2021

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --