

**SAFETY DATA SHEET**

In accordance with Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product Name Fluazinam Technical

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Preparation of Fungicide formulations

1.3. Details of the supplier of the safety data sheet

Supplier Name & Address CROPNOSYS INDIA PVT. LTD
Plot No. 5303, GIDC Estate, Phase IV, Vapi, District - Valsad
PIN- 396195, Gujarat, INDIA

Tel No. +91 22 652 26797

For further information, please contact

Email address info@cropnosysindia.com
Website www.cropnosysindia.com

1.4. Emergency telephone number

Emergency Telephone +91 22 652 26797

Section 2: HAZARD IDENTIFICATION**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Dermal (Category 5), H313
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 3), H316
Skin Sensitization (Category 1), H317
Serious eye damage (Category 1), H318
Reproductive toxicity (Category 2), H361d
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Hazard statement(s)

- H313 May be harmful in contact with skin
 H332 Harmful if inhaled.
 H316 Causes mild skin irritation
 H317 May cause an allergic skin reaction
 H318 Causes serious eye damage.
 H361d Suspected of damaging the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

- P201 Obtain special instructions before use.
 P273 Avoid release to the environment.
 P280 Wear eye protection/ face protection.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Statements : none

2.3 Other hazards - none

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS-No. Index-No.	Classification	Content
Fluazinam Technical Mol. Weight: 465.09 Mol. Formula: C ₁₃ H ₄ Cl ₂ F ₆ N ₄ O ₄	79622-59-6 612-287-00-5	Acute tox. 5 , H313 Acute Tox. 4, H332 Skin Irrit. 3, H316 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Acute 1, M-factor=10 Aquatic Chronic 1, H410	98.0% min



Section 4: FIRST AID MEASURES

4.1. Description of 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 a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	Refer Section 11 or 2.2
Indication of any immediate medical attention and special treatment needed	No data available

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas, Hydrogen fluoride

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2. 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.

6.3. 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.

6.4. Reference to other sections

For disposal see section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end uses

No data available

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal Technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

a) Appearance	Pale yellow powder
b) Odour	Odourless
c) Odour Threshold	No data available
d) pH	6.22 at 22.3° C
e) Melting point	115 to 119° C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	Not highly flammable
j) Upper/lower flammability or explosive limits	Not available
k) Vapour pressure	6.89 mPa at 25°C
l) Vapour density	No data available
m) Relative density	1.7030 g/ml
n) Water solubility	0.09 mg/L
o) Partition coefficient: n-octanol/water	Log P _{ow} = 3.91
p) Autoignition temperature	Not auto-flammable
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	not explosive
t) Oxidizing properties	not Oxidising

Other safety information

No data available



Section 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas, Hydrogen fluoride
Other decomposition products - No data available
In the event of fire: see section 5

Section 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 5000 mg/kg

LC50 Inhalation - rat – 1.08 mg/l (rat, whole-body exposure)

LD50 Dermal - rat - > 2.000 mg/kg

Skin corrosion/irritation

Non Irritant

Serious eye damage/eye irritation

Non irritant

Respiratory or skin sensitization

Non Sensitizer

Germ cell mutagenicity

No genotoxic potential relevant to humans

Carcinogenicity

Not carcinogenic in rat and in mouse.

Reproductive toxicity

Reproductive NOAEL 7.26 mg/kg bw per day

Specific target organ toxicity - single exposure

No data available

**Specific target organ toxicity - repeated exposure**

No data available

Aspiration hazard

No data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Birds	: LD ₅₀ for <i>Colinus virginianus</i> 1782 mg/kg
Fish	: LC ₅₀ (96 h) for <i>Lepomis macrochirus</i> 0.055 mg/L
Daphnia	: EC ₅₀ (48 hrs) 0.22 mg/L
Algae	: EC ₅₀ (72 h) for <i>Pseudokirch subcap.</i> 0.16 mg/L
Bees	: Practically non-toxic (LD50= >100 µg ai/bee)

Persistence and degradability

Low to moderate persistence and not readily biodegradable.

Bio-accumulative potential

The risk for bioaccumulation is considered to be low

Mobility in soil

Slight to Low mobility.

Results of PBT and vPvB assessment

No data available

Other adverse effects

Very toxic to aquatic life.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product..

**Section 14: TRANSPORT CONSIDERATIONS****UN number**

ADR/RID	:	3077
IMDG	:	3077
IATA	:	3077

UN proper shipping name

ADR/RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam)
IATA	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam)

Transport hazard class(es)

ADR/RID	:	9
IMDG	:	9
IATA	:	9

Packaging group

ADR/RID	:	III
IMDG	:	III
IATA	:	III

Environmental hazards

ADR/RID	:	Yes
IMDG Marine pollutant:	:	Yes
IATA	:	Yes

Special precautions for user : None

Further information**Section 15: REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out



Section 16: OTHER INFORMATION

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet