

FLUAZIFINSafety Data Sheet updated to Regulation (EC) N° 1272/2008 [CLP]
and according to Regulation (EC) N° 830/2015**Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**Product name **Fluazinam 500 SC**Trade Name **FLUAZIFIN****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Fungicide for agricultural crops. Any other use not indicated is not recommended.

1.3 Details of the supplier of the safety data sheet

Supplier **FINCHIMICA S.p.A. - Uffici della Direzione Commerciale**
Via Fratelli Beltrami, 15
20026 Novate Milanese (MI) – Italy
Tel. +39.02.382121 – Fax +39.02.38200032
E-mail: infonovate@finchimica.it
E-mail competent person
responsible for the SDS: tarcisio.vavassori@st-cv.it

1.4 Emergency telephone numberEmergency telephone number FINCHIMICA : **+39.02.382121** (business hours).National Health Service **+44.111****Section 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) N° 1272/2008 (CLP) - 6° ATP (Regulation N° 605/2014)**Hazard Classes-and-Categories - Hazard Statements (H-Statements):**Skin sensitization (Category 1A) - H317****Reproductive toxicity (Category 2) - H361d****Hazardous to the aquatic environment — Acute Hazard (Category 1) - H400****Hazardous to the aquatic environment — Chronic Hazard (Category 1) - H410**Signal Word: **WARNING***Physical and chemical hazards:*

Not classified for all chemical-physical hazards. No particular risk of fire.

Health adverse effects:

May cause irritation and allergic reactions in case of skin contact. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis.

Health adverse effects:




Highly toxic for aquatic organisms. May cause long term negative effects on the aquatic environment.

For the full text of Hazard Statements (H-Statements) mentioned in this section, see section 16.

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2.2 Label elements

Hazard Pictograms	GHS07 GHS08 GHS09	
	  	
Signal word	WARNING	
Hazard Statement:	H317: H361d: H410:	May cause an allergic skin reaction. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary Statement (Prevention):	P101: P102: P233+P234: P261: P280:	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep only in the original container, in a safe place tightly closed. Avoid breathing mist/vapours/spray. Wear protective gloves / protective clothing.
Precautionary Statement (Reaction):	P302+P352: P308+P313: P333+P313: P361:	IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Remove/Take off immediately all contaminated clothing.
Precautionary Statement (Storage):	-	-
Precautionary Statement (Disposal):	P501	Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.
Special rules for per plant protection products		
Regulation (EC) N° 1272/2008	EUH401:	To avoid risks to human health and the environment, comply with the instructions for use..

2.3 Other hazards

In case of fire it may develop toxic fumes.



Section 3. COMPOSITION/INFORMATIONS ON INGREDIENTS
3.1 Substances

Not applicable.

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3.2 Mixtures

Product name	International identification data	Identification numbers	Registration Number	Classification	Concentration (% p/p)
Fluazinam	<ul style="list-style-type: none"> • Fluazinam • 3-Chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-α,α,α-trifluoro-2,6-dinitro-p-toluidine 	EC Number: .		 <p>Skin sens. 1 H317 - Eye dam. 1 H318 - Acute Tox. 4 H332 – Repr. 2 H361d - Aquatic Acute 1 H400 - Aquatic Chronic 1 H410</p> <p>DANGER</p>	35÷45%
		CAS Number: 79622-59-6			
		INDEX Number: 612-287-00-5			
Ammonium salt of polyarylphenyl ether sulphate	<ul style="list-style-type: none"> • Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega.-[tris(1-phenylethyl)phenoxy -, ammonium salt 	EC Number: .		 <p>Eye dam. 1 H318 - Aquatic Acute 3 H402 - Aquatic Chronic 3 H412</p> <p>DANGER</p>	≤ 2.0
		CAS Number: 119432-41-6			
		INDEX Number: -			

For the full text of the Hazard statements (H-Statements) and Hazard Classes-and-Categories mentioned in this section, see section 16.

Section 4. FIRST AID MEASURES
4.1 Description of first aid measures

In general	Get medical attention immediately. Show this safety data sheet to the doctor in attendance. Check that the respiratory tract is not obstructed and position the victim on the side with head lower than the body. Always wash clothing before reusing.
After Inhalation	Remove the affected person from the contaminated area and transport to a well ventilated area. Keep the person warm and at rest. If breathing has stopped, perform artificial respiration preferably mouth-to-mouth. Get medical attention immediately.
After eye contact	Remove contact lenses, if present and easy to do. Rinse with plenty of water (15 minutes at least), holding the eyelids wide open in order to remove completely any traces of the product. Get medical attention.
After skin contact	Immediately remove contaminated clothing and footwear, gently remove any traces of product remaining on the body and wash exposed parts with large amounts of water and soap. If necessary, get medical attention.

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After Ingestion

If the subject is not conscious or presents with convulsions, do not administer liquids and do not induce vomiting. Rinse mouth with water. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation and allergic reactions in case of skin contact. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote exists. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment of exposure should be directed at the control of symptoms and the clinical condition.

Section 5. FIRE-FIGHTING MEASURES

The product is not flammable. Even when exposed to flame or heat, the product presents a low fire risk.

5.1 Extinguishing media

Extinguishing means To extinguish the fire, use: carbon dioxide, chemical powder or foam.

Unsuitable extinguishing means Atomized water may be used for cooling packages not directly affected by the flames, but water must not come into direct contact with the product so as to prevent environmental pollution.

5.2 Special hazards arising from the substance or mixture

In the event of fire the product may develop toxic gases (nitrogen oxides [NO_x], carbon oxides [CO-CO₂], sulphur dioxides [SO_x], corrosive fumes of hydrogen chloride and hydrogen fluoride).

5.3 Advice for fire-fighters

Remove all people not essential to fire fighting operations. Isolate the area. Put out the fire remaining at a safe distance. In case of large fires (particularly in confined spaces), use self contained breathing apparatus and full protective clothing. Do not use a direct water jet but atomized water; for small fires use foam, chemical powder or CO₂ portable extinguishers. Cool containers until not directed involved by flames until the fire is completely put out, avoiding contact between water and product in such a way to prevent environmental pollution; then continue to cool them even when risk of re-ignition has passed. Evacuate the area in case of whistling sounds from tanks or in case of decolouration of containers.

Allow only well trained personnel properly informed on the product's hazards to intervene. Avoid contact with the product while putting out the fire. If possible, remove containers exposed to heat, without creating additional risks; otherwise cool them down with water. If possible, separate water used for putting out the fire.

Section 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective equipment (P.P.E.). For further information, refer to point 8 "*Exposure control/individual protection*". In the event of fire or accidental release, keep untrained persons not involved in handling the emergency away and upwind. Avoid the formation of dust and aerosols. Use only in presence of adequate ventilation where dust is formed. Avoid all contact with the product. Avoid breathing dusts, vapours, mist or aerosols. Wash all protective clothing after use, in particular the internal part of the gloves. In case of contact, wash the product from eyes and skin immediately.

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To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water. Stem accidental leaking to keep the product from entering water or sewerage system. Notify the competent authorities if losses have flowed into a body of water or into sewerage system. In case of accidental release, contact the local Firefighting office.

6.3 Methods and material for containment and cleaning up

Take up with sand/absorbent materials and place in appropriate containers adequately labelled and suitable for subsequent disposal. In case of large scale-losses, circumscribe the area and gather the materials with a suitable industrial vacuum. Consult the manufacturer. Dispose of the materials or the solid residue in an authorised disposal centre. In the event of fire or accidental release, keep untrained persons not involved in handling the emergency away and upwind. In case of fire, circumscribe the area to avoid accidental leaking of the product and use as little water as possible. Collect fire-fighting water; if water runs into an outflow system, notify the authorities.

6.4 Reference to other sections

Refer to sections 8 and 13.

Section 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Adopt standard personal hygiene and safety measures.

Do not eat or keep food in working area.

Wash hands and exposed parts before eating, drinking or smoking and after work.

Avoid the formation of dust and aerosols. Use only in presence of adequate ventilation where dust is formed.

Avoid all contact with the product. Avoid inhaling dusts. When entering crops do not allow contact of unprotected skin with treated foliage.

Ensure that there are efficient emergency eyewash facilities and showers in proximity.

7.2 Conditions for safe storage, including any incompatibilities

Storage of the product must comply with the provisions of current local regulations.

Keep the product in its original containers tightly closed in a cool, dry, well ventilated and separated area.

Keep away from food, beverages, animal foodstuff, drugs, cosmetics, fertilisers and water.

7.3 Specific end uses

Any usage not indicated at point 1.2 is ill advised.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Exposure limits TLV/TWA (OSHA): no specific limit for Fluzinam (active ingredient) established

TLV/STEL (ACGIH 2013, USA):no specific limit for Fluzinam (active ingredient) established

TLV/TWA (OSHA): 3 mg/m³ for respirable particles PNOC.

TLV/STEL (ACGIH 2013, USA): 10 mg/m³ for inhalable particles PNOC.

[TLV: Threshold Limit Value – TWA: Time Weighted Average -STEL: Short Term Exposure Limit]

8.2 Exposure controls

Ensure good ventilation of work site. Capture dusts where they are generated. Observe normal industrial hygiene standards. Do not eat, drink or smoke while handling the product. Wash hands before breaks.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N99 (US) or type P2 [EN 143 “Respiratory protective devices - Particle filters - Requirements, testing, Marking”] respirator cartridges as a backup to engineering controls.

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If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

In case of emergency, use a self-contained breathing apparatus.

Hand protection Protective gloves [EN 374 "*Protective gloves against chemicals and micro-organisms*"]. 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. Wash all protective clothing after use, in particular the internal part of the gloves. Dispose of contaminated gloves after use in accordance with applicable laws.

Eyes protection Full protection safety goggles or face shield [EN 166 "*Personal eye protection*"]. Ensure that there are efficient emergency eyewash facilities and showers in proximity.

Skin 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. Ensure that there are efficient emergency eyewash facilities and showers in proximity.

Control of environment exposure Avoid any release in the environment.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light yellow to light brown
Odour	Pungent
Odour threshold	Data not available
pH	5,9
Melting point / freezing point	Data not available
Boiling point	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	Not applicable
Upper / lower flammability or explosivity limits	Not applicable
Vapour pressure	1.7x10⁻⁷ mm Hg @ 20°C (active ingredient)
Vapour density	Data not available
Relative density	1,29 g/ml
Water solubility	Miscible in water
n-octanol/water coefficient	Log P = 3.56 @ 20°C (active ingredient)
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available
Explosives properties	Not explosive
Oxidizing properties	Data not available

9.2 Other information

No data available.

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Section 10. STABILITY AND REACTIVITY
10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable at room temperature under normal conditions of use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heating of the product can produce harmful and irritating vapours.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

 None under normal storage and use conditions. In the event of fire the product may develop toxic gases (nitrogen oxides [NO_x], carbon oxides [CO-CO₂], sulphur dioxides [SO_x], corrosive fumes of hydrogen chloride and hydrogen fluoride).

Section 11. TOXICOLOGICAL INFORMATION

 This section is reserved to the medical personnel, to health and safety professionals and to toxicologists. If not shown in the following, toxicological data mentioned in section 11.1 of Regulation N° 830/2015 have to be considered as "*not available*".

11.1 Information on toxicological effects

May cause irritation and allergic reactions in case of skin contact. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis.

Acute toxicity

by ingestion (rat)	LD ₅₀ oral > 2000 mg/kg bw
by skin contact (rabbit)	LD ₅₀ > 2000 mg/kg bw
by inhalation (rat)	LC ₅₀ (4 h) > 1,15 mg/L
Skin erosion / irritation	Skin – Not irritating (rabbit)
Serious eye damage / eye irritation	Eyes – Not irritating (rabbit)

**Respiratory or skin sensitization
finish product**

Demonstrated potential to produce dermal sensitization

Section 12. ECOLOGICAL INFORMATION
12.1 Toxicity

Toxicity to fishes [Oncorhynchus mykiss – Rainbow trout]	LC ₅₀ (96 h) = 0,061 mg/l
Toxicity to Daphnia and other aquatic invertebrates [Daphnia Magna - Water Flea]	EC ₅₀ (48 h) = 0,119 mg/l
Toxicity to algae [Pseudokirchneriella subcapitata - Microalgae]	EC ₅₀ (72 h) = 0,534 mg/l

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12.2 Persistence and degradability

Stability in soil: Fluazinam is not persistent.

12.3 Bioaccumulative potential

Fluazinam has the potential to bioaccumulate, See section 9 for octanol- water partition coefficient.

12.4 Mobility in soil

Fluazinam is not mobile in soil.

12.5 Results of PBT and vPvB assessment

Fluazinam is not considered to be PBT or vPvB.

12.6 Other adverse effects

Not known.

Section 13. DISPOSAL CONSIDERATIONS:
13.1 Waste treatment methods

Product/packaging

Rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Treat the effluents in the same manner as the waste. Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Washing products

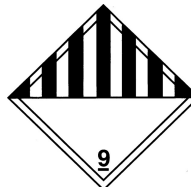
Do not pollute streams, rivers or canals with residues coming from storage, processing or cleaning activities or with used containers. Washing solutions must be disposed of in compliance with the current local/national regulations.

Section 14. TRANSPORT INFORMATION

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Fluazinam)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Marine pollutant

Land Transport:
 Railroad Transport
 [RID]

UN No.: **3082**
 "Environmentally hazardous substance,
 liquid n.o.s. (Fluazinam)"
 Class: **9**
 Packing Group: **III**
 Danger No: **90**

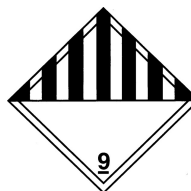


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Land Transport:
Road Transport [ADR]

UN No.: 3082
"Environmentally hazardous substance, liquid n.o.s. (Fluazinam)"
Class: 9
Packing Group: III
Danger No: 90



Air Transport
[ICAO/IATA]

UN No.: 3082
"Environmentally hazardous substance, liquid n.o.s. (Fluazinam)"
Class: 9
Packing Group: III
Danger No: 90



Sea Transport
[IMO/IMDG]

UN No.: 3082
"Environmentally hazardous substance, liquid n.o.s. (Fluazinam)"
Class: 9
Packing Group: III
Danger No: 90
Marine Pollutant
EmS: F-A, S-F


14.6 Special precautions for user

Refer to sections 6, 7 and 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable because of FLUAZIFIN not intended for transport in bulk.

Section 15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation	Subject	Applicability
Regulation (EC) N° 1005/2009	Substances that deplete the ozone layer	Not applicable.
Regulation (EC) N° 850/2004	Persistent organic pollutants	Not applicable.
Regulation (EC) N° 649/2012	Export and import of dangerous chemicals	Not applicable.
Regulation (EC) N° 1907/2006 (REACH)	Art. 59 - Candidate List of Substances of Very High Concern for Authorization.	Not applicable.
Directive 2012/18/EU of the European Parliament and of the Council (Seveso III)	Control of major-accident hazards involving dangerous substances.	Reference threshold quantities (E1 - Environmental Hazards - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1): ➤ lower-tier requirement = 100 tonnes, ➤ upper-tier requirement = 200 tonnes.
Directive 98/24/EC of the European Parliament and of the Council	Protection of the health and safety of workers from the risks related to chemical agents at work.	Applicable.

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No Chemical Safety Assessment (CSA) has been carried out because of FLUAZIFIN as already being registered according to art. 15 « *Substances in plant protection and biocidal products* » of Regulation N° 1907/2006 (REACH).

Section 16. OTHER INFORMATION

Safety Data Sheet (SDS) was prepared according to Regulation (EC) N° 1272/2008 of European Parliament and of Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, which amends and repeals Directives 67/548/EEC and 1999/45/EC and amends also Regulation (EC) N° 1907/2006.

Full text of Hazard Statements (H-Statements) referred to under sections 2 and 3

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of Precautionary Statements (P-Statements) referred to under section 2

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P233+P234	Keep in the original container, in a safe place tightly closed.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves / protective clothing.
P302+P352	IF ON SKIN: wash with plenty of soap and water.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P361	Remove/Take off immediately all contaminated clothing.
P501	Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Full text of Hazard Classes-and-Categories referred to under section 3

Acute Tox. 4	Acute toxicity; Category 4.
Eye Dam. 1	Serious eye damage; Category 1.
Skin Sens. 1A	Skin sensitization; Category 1A.
Repr. 2	Reproductive toxicity; Category 2.
Aquatic Acute 1	Acute hazard (short term) to the aquatic environment; Acute toxicity, Category 1.
Aquatic Chronic 1	Chronic hazard (long term) to the aquatic environment; Chronic toxicity, Category 1.
Aquatic Acute 3	Acute hazard (short term) to the aquatic environment; Acute toxicity, Category 3.
Aquatic Chronic 2	Chronic hazard (long term) to the aquatic environment; Chronic toxicity, Category 3.

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ACGIH	American Conference of Industrial Hygienists
ADR	Accord européen relative au transport international des marchandises dangereuses par route
BCF	Bioconcentration Factor
bw	Body weight
CAS	Chemical Abstract Service
CLP	Classification, Labelling and Packaging
CSA	Chemical Safety Assessment
EC	European Community
EC₅₀	Effective Concentration 50
EINECS	European Inventory of Existing Commercial Chemical Substances
LC₅₀	Lethal Concentration 50
LD₅₀	Lethal Dose 50
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG Code	International Maritime Dangerous Goods code
n.o.s.	Not otherwise specified
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative and toxic substances
PNOC	Particles (not soluble) not otherwise specified
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, and Authorization of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses
SDS	Safety Data Sheet
s.a.s.	subsequent amendments and additions
STEL	Short term exposure limit
TLV	Threshold limit value
TWA	Time Weighted Average
vPvB	Very persistent very bioaccumulative substances

Information contained in this Safety Card correspond to the actual state of our knowledge and our experience with the product. Their purpose is to describe our products in terms of safety and, therefore, they are not aimed to guarantee specific properties of the same products. Contained Information are relevant to the product as such, according to its specifications. In case of combinations or mixtures, make sure that any new danger might be highlighted.

The workers training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong.

This Safety Data Sheet in no way exempts the user from observing all current local/national regulations about the product for all aspects concerning environment, health and work safety.