

SAFETY DATA SHEET
according to Commission Regulation (EU) 2020/878**FLOIXEM® B****SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable.

3.2. Mixtures

Chemical name	CAS NO.	EC NO	Content	Pictogram	Phrases
mixture of: 5-cloro-2-metil-2H-isotiazol-3-ona y 2-methyl-2H-isotiazol-3-one (3:1)	55965-84-9	911-418-6	<0,02%	GHS05 GHS06 GHS09	H301 H310 H314 H317 H330 H410

See sections 11, 12 and 16 for further information on the hazardous nature of the substances.

SECTION 4. FIRST AID**4.1. Description of first aid measures**

Symptoms as a consequence of poisoning may occur after exposure, so in case of doubt, direct exposure to the chemical or persistent discomfort seek medical attention, showing the SDS for this product.

By inhalation:

Rinse mouth and nose with water. Remove person to fresh air and keep in a position that facilitates breathing. If discomfort persists, seek medical attention.

By skin contact:

Remove contaminated clothing and wash affected area with plenty of water. In case of skin irritation, seek medical advice with this Safety Data Sheet.

After eye contact:

Flush eyes with plenty of water at room temperature for at least 15 minutes. Avoid rubbing or closing eyes. If the casualty wears contact lenses, these should be removed if they are not stuck to the eyes, otherwise additional damage may occur. In case of eye irritation, seek medical advice with this Safety Data Sheet.

By ingestion/aspiration:

Call a poison control centre or doctor if you feel unwell. Do not induce vomiting, if vomiting occurs, keep head tilted forward to avoid aspiration. In case of loss of consciousness, DO NOT administer anything by mouth until under medical supervision.

4.2. Most important symptoms and acute and delayed effects

Acute and delayed effects are those listed in sections 2 and 11.

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FLOIXEM® B**4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing media****Suitable extinguishing media:**

Product is not flammable under normal conditions of storage, handling and use. In case of ignition as a result of improper handling, storage or use, preferably use multi-purpose powder extinguishers (ABC powder), water spray, carbon dioxide or alcohol-resistant foam in accordance with local laws.

Unsuitable extinguishing media:

Not relevant.

5.2. Specific hazards arising from the substance or mixture

As a consequence of combustion or thermal decomposition, reaction by-products are generated which may be toxic and consequently may present a health hazard.

5.3. Recommendations for fire-fighting personnel

Depending on the magnitude of the fire, it may be necessary to wear full protective clothing and self-contained breathing apparatus. Have a minimum number of emergency facilities or elements for action (fire blankets, portable first aid kit, etc.) in accordance with local laws.

Additional provisions:

Act in accordance with the Indoor Emergency Plan and the Information Sheets on action to be taken in the event of accidents and other emergencies. Suppress any source of ignition. In case of fire, cool containers and storage tanks of products susceptible to ignition, explosion or BLEVE as a result of high temperatures. Avoid spillage of products used to extinguish the fire into the aquatic environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures.****For non-emergency services personnel:**

Avoid contact with eyes, skin and respiratory tract. No action should be taken involving personal risk or without adequate training. Do not allow unnecessary and unprotected personnel to enter. Do not touch or walk through spilled material. Provide adequate ventilation.

Potential exposure to spilled product requires the use of personal protective equipment (see section 8).

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FLOIXEM® B**For emergency personnel:**

Do not intervene without suitable protective equipment. For further information see section 8.

6.2. Environmental precautions

Keep product away from drains, surface and ground water. In case of spillage, prevent spillage from reaching sewers and watercourses. Drain and collect spillage.

6.3. Methods and material for containment and clean-up

Collect spillage, absorb liquid with absorbent material (diatomaceous earth, sand or inert absorbent) and transfer to a safe place.

For disposal considerations refer to section 13.

Reference to other sections

See sections 8 and 13.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for safe handling****A.- General precautions**

Comply with current legislation on occupational risk prevention in terms of manual handling of loads and chemical products. Keep containers hermetically sealed. Avoid free spillage from the container. Maintain order, cleanliness and disposal by safe methods (section 6).

B.- Technical recommendations for the prevention of fire and explosion.

Product is non-flammable under normal conditions of storage, handling and use. Transfer at slow speeds is recommended to avoid generation of electrostatic charges that may affect flammable products. See section 10 for conditions and materials to be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological hazards

For exposure control see section 8. Do not eat, drink or smoke in work areas; wash hands after each use and remove contaminated clothing and protective equipment before entering eating areas.

D.- Technical recommendations to prevent environmental risks

It is recommended to have containment and cleaning material in the vicinity of the product (see section 6.3).

7.2. Conditions for safe storage, including possible incompatibilities**A.- Technical storage measures**

Minimum temperature: 5 C°
Maximum temperature: 40 C°
Maximum time: 24 months

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B.- General storage conditions.

Keep only in the original container. Keep container tightly closed. Keep in a cool, dry and well-ventilated place.

Avoid contact with reducing agents, oxidizing agents, amines, mercaptans and nucleophilic substances. Incompatible packaging: Steel. Recommended materials: High density polypropylene.

Avoid direct sunlight, heat sources, radiation, static electricity and contact with foodstuffs. For additional information see sections 10.4 and 10.5.

7.3. Specific end uses

Except as already specified, no special recommendations for uses of this product are necessary.

SECTION 8. EXPOSURE CONTROLS/INDIVIDUAL PROTECTION**8.1. Control parameters**

Occupational and Biological Exposure Limit Values: This product, as supplied, does not contain any hazardous materials with biological limits established by specific regional regulatory agencies.

DNEL (Worker)	Not relevant
DNEL (General Population)	Not relevant
PNEC	Not relevant

Exposure controls**A.- General health and safety measures in the work environment**


In accordance with the priority order for occupational exposure control the localized extraction of the working area is recommended as a collective protection measure to avoid exceeding occupational exposure limits. If personal protective equipment is used, it should have the CE marking in accordance with current legislation. For more information regarding personal protective equipment (storage, use, cleaning, type of protection, etc.), see the information leaflet provided by the manufacturer. The instructions detailed in this point refer to pure product. Safety measures for diluted product may vary depending on the degree of dilution, use, application method, etc. In order to determine the obligation to install emergency showers and/or eyebath in warehouses, regulations referring to storage of chemical products should be followed. For more information, see points 7.1 and 7.2. This information is a recommendation. Risk prevention services should correct the information, it is unknown if the company has additional prevention measures or if they have been included in the appropriate risk evaluation.

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B.- Respiratory protection

In case of high vapour concentrations or if occupational exposure limits are exceeded (see section 8.1), wear a respiratory protective mask with filter for organic vapours (EN 136/140/141/145/143/149). Under normal conditions, respiratory protection is not required.

C.- Specific protection for hands

Pictogram	PPE	Marking	CEN standards	Remarks
 Mandatory hand protection	Chemical resistant protective gloves		EN ISO 374	Penetration: 75% THPS Material of gloves: PVC Thickness: 1.23 mm; Breakthrough time: >480 minutes; Protection class: 6 Respect the instructions regarding permeability and breakthrough time provided by the manufacturer.

D.- Eye and face protection

Pictogram	PPE	Marking	CEN Standards	Remarks
 Mandatory face protection	Safety goggles against splashes and/or projections		EN 166 EN ISO 4007	Clean daily and disinfect periodically according to the manufacturer's instructions. Recommended for use in case of risk of splashes.



E.- Body protection

Pictogram	PPE	Marking	CEN Standards	Remarks
	Work clothing		EN ISO 13034	Replace at any sign of deterioration. For prolonged periods of exposure to the for professional/industrial users, CE III is recommended, according to the following standards EN ISO 6529, EN ISO 6530, EN ISO 13688, EN 464

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	Work footwear slip-resistant		EN ISO 20347	Replace at any sign of deterioration. For prolonged exposure to the product for professional/industrial users for professional/industrial users, CE III is recommended, according to the following standards EN ISO 20345 and EN 13832-1
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F. - Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1 ISO 3864-4	 Eyewash	DIN 12 899 ISO 3864-1 ISO 3864-4

Environmental exposure controls:

Under EU environmental protection legislation it is recommended to avoid release of both the product and its packaging into the environment. For additional information see section 7.1.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

For complete information see product data sheet/specification sheet.

Physical state at 20 °C:

Appearance:	Liquid
Colour:	Colourless
Odour:	Odourless
Olfactory threshold:	Not relevant *

Volatility:

Boiling temperature at atmospheric pressure:	approx. 100 C°
Vapour pressure at 20 °C (of the substance isothiazolone mixture in pure form):	20.8 hPa (OECD 104)
Vapour pressure at 50 °C:	Not relevant *
Evaporation rate at 20 °C:	Not relevant *

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Product characterisation:

Density at 20 °C:	approx. 1.00 g/cc
Relative density at 20 °C:	Not relevant *
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	5-7
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water at 20°C:	Not relevant *
Solubility in water at 20 °C:	Unlimited
Solubility property:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

Flammability:

Flash point:	Not relevant *
Flammability (solid, gas):	Not relevant *
Self-ignition temperature:	Not self-igniting
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Explosivity (Solid):

Lower explosive limit:	Not relevant *
Upper explosive limit:	Not relevant *

Particle characteristics:

Equivalent mean diameter:	Not relevant *
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*Not relevant due to the nature of the product, providing no characteristic information on its hazardousness.

9.2. Other information

Information concerning physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Combustion heat:	Not relevant *
Aerosols - total percentage (by mass) of components flammable:	Not relevant *

Other safety characteristics:

Surface tension at 20 °C:	Not relevant *
Refractive index:	Not relevant *

*Not relevant due to the nature of the product, providing no characteristic information on its hazardousness.

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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions are expected if the technical instructions for the storage of chemicals are observed (see section 7).

10.2. Chemical stability

Stable under specified conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Under the stated conditions, no hazardous reactions which could lead to excessive pressure or temperatures are expected.

10.4. Conditions to avoid

To be handled and stored at room temperature:

Shock and friction	Contact with air	Heating	Sunlight
Not applicable	Not applicable	Avoid storage temperatures above 55° C and below 1° C.	Avoid direct incidence

10.5. Incompatible materials

Incompatible with reducing agents, oxidising agents, amines, nucleophilic substances and mercaptans. Do not **store in** steel containers.

10.6. Hazardous decomposition products

No dangerous decomposition products known under normal conditions of use. Only in case of fire, toxic gases or vapours may be released. The following may be released in case of decomposition: carbon monoxide (CO), hydrogen chloride (HCl), nitrogen oxides (NOx) and sulphur oxides (SOx).

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes defined in Regulation (EC) No 1272/2008

A.- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met. For further information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. For further information see section 3.

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FLOIXEM® B**B.- Inhalation (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met. For further information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. For further information see section 3.

C.- Skin and eye contact (acute effect):

- Skin contact: Based on available data, the classification criteria are not met. For further information see section 3.
- Eye contact: Based on available data, the classification criteria are not met. For further information see section 3.

D.- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. For further information see section 3. IARC: Not relevant.
- Mutagenicity: Based on available data, the classification criteria are not met. For further information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. For further information see section 3.

E.- Sensitisation effects:

- Respiratory: Based on available data, the classification criteria are not met, not presenting substances classified as hazardous with sensitising effects above the limits listed in section 3.2 of Regulation (EC) 2020/878. For further information see sections 2, 3 and 15.
- Cutaneous: Based on available data, the classification criteria are not met. For further information see section 3.

F.- Specific target organ toxicity (STOT)-single exposure:

Based on available data, the classification criteria are not met. For further information see section 3.

G.- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. For further information see section 3.
- Skin: Based on available data, the classification criteria are not met. For further information see section 3.

H.- Aspiration hazard:

Based on available data, the classification criteria are not met. For further information see section 3.

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Substance-specific toxicological information:

Identification	Acute toxicity		Genus
mixture of: 5-cloro-2-metil -2H-isotiazol-3-ona y 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: 911-418-6	Oral LD50	862 mg/kg	Rat
	LD50 dermal	2,800 mg/Kg	Rabbit
	LC50 inhalation	0.33 mg/l 4h	Rat

11.2. Information concerning other hazards

No further information available.

ECOLOGICAL INFORMATION

12.1. Toxicity

Acute toxicity

Substance-specific information

Identification	Acute toxicity	Concentration	Species
mixture of: 5-cloro-2-metil -2H-isotiazol-3-ona y 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: 911-418-6	LC50 (96 h) - Fish	0,19 mg/l	Oncorhynchus mykiss
	EC50 (48 h) - Aquatic invertebrates	0,16 mg/l	Daphnia magna
	EC50 (96 h) - Aquatic plants	0.003 mg/l	Skeletonem

Inhibition of respiration in activated sludge ECSO: 4m.s g/l

12.2. Persistence and degradability

Product degrades easily in activated sludge.

12.3. Bioaccumulative potential

Not potentially bioaccumulative.

12.4. Mobility in soil

Liquid totally soluble in water.

12.5. Results of PBT and vPvB assessment

The product does not contain components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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12.6. Endocrine disrupting properties

The product does not contain endocrine disrupting components which have an effect on the environment.

12.7. Other adverse effects

Not concerned by Regulation (EU) n° 2024/590 of the European Parliament and of the Council of 7 February 2024 on substances that deplete the ozone layer.

No information on other adverse effects on the environment is available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste type (Regulation (EU) No 1357/2014):

Code	Description	Type of waste
-	-	Non-hazardous

Waste management (disposal and recovery):

Consult the authorised waste manager for recovery and disposal operations according to Annex 1 and Annex 2 (Directive 2008/98/EC). According to codes 15 01 (2014/955/EU), if the packaging has been in direct contact with the product, it will be managed in the same way as the product itself, otherwise it will be managed as non-hazardous waste. Discharge into watercourses is not recommended. See section 6.2.

Legislative provisions related to waste management:

According to Annex II of Regulation (EC) No 1907/2006 (REACH) the Community or State provisions related to waste management are listed: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous goods according to transport regulations.

	ADR/RID	ADN	IMDG	IATA/ICAO
UN number or ID number	-	-	-	-
14.2. United Nations proper shipping description	-	-	-	-
14.3. Transport hazard class(es)	-	-	-	-
14.4. Packing group(s)	-	-	-	-
14.5. Environmental hazards	-	-	-	-

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FLOIXEM® B**14.6. Special precautions for users**

See sections 6, 7 and 8.

14.7. Carriage by sea in bulk under IMO Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations and legislation specific to the substance or mixture**

- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (REACH Annex XVII): Not relevant.
- List of substances subject to authorisation (Annex XIV of REACH Regulation): Not relevant.
- Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals: Not relevant.
- Regulation (EU) No 2019/1021 on persistent organic pollutants: Not relevant.
- Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the placing on the market and use of biocidal products: mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).
- Regulation (EU) (EU) No 2024/590 on substances that deplete the ozone layer: Not relevant.

Seveso III:

Not relevant.

Special provisions for the protection of man or the environment:

It is recommended to use the information compiled in this safety data sheet as input data in a risk assessment of the local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Regulation EC No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments.

Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 and subsequent amendments.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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SECTION 16. OTHER INFORMATION**Legislation applicable to safety data sheets:**

This safety data sheet has been developed in accordance with ANNEX II-Guidance for the preparation of Safety Data Sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Amendments to the previous safety data sheet affecting risk management measures:

Not relevant

Texts of the legislative phrases referred to in section 2:

Not relevant

Texts of the legislative phrases referred to in section 3:

Not relevant

Regulation 1272/2008 (CLP):

Not relevant

Advice on training:

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the labelling of the product.

Main bibliographic sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

SDS: Safety Data Sheet

CAS: Chemical Abstracts Service - Division of the American Chemical Society

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective Concentration 50

DNEL: No-effect level: level of exposure to the substance below which no adverse effects are expected and above which humans should not be exposed.

vPvB: Very Persistent/Very Bioaccumulative

PBT: Persistent/bioaccumulative/toxic

STOT: Specific Target Organ Toxicity

IARC: International Agency for Research on Cancer

PNEC: Predicted No Effect Concentration: Concentration of the substance for which no adverse effects on environmental performance are expected.

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REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

ADR: European Agreement concerning the international carriage of goods by road

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation