

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I**SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR FIRM**

1.1. Product identifier **FLOIXEM® I**
UFI: **X3P1-XG8G-YHMX-T8FG**

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

Relevant uses: Corrosion and scale inhibitor for low or high temperature heating and cooling systems.

Not recommended uses of the mixture: The product should not be used in ways other than those mentioned in section 1.

1.3. Details of the supplier of the safety data sheet

Company: **SUCESORES DE CARMELO PÉREZ MARTÍNEZ S.L.**
Address: CALLE DEL TITANIO 15, POL.IND. PTR
Town: 50720 - CARTUJA BAJA
Province: ZARAGOZA (SPAIN)
Telephone: +34 634119130
E-mail: floixem@floixem.com
Website: www.floixem.com

1.4. Emergency telephone number (24 h) INFOTRAC 1-352-323-3500 (International)

SECTION 2. HAZARD IDENTIFICATION**2.1. Classification of the substance or mixture****Regulation 1272/2008 (CLP):**

Not classified.

2.2. Label elements**Labelling according to Regulation 1272/2008 (CLP):**

Labelling not applicable.

2.3. Other hazards

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

The product does not contain endocrine disrupting components that have an effect on human health.

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

Not applicable.

3.2. Mixtures

Chemical description: Miscellaneous product(s).

Components:

According to Annex II of Regulation (EC) No 1907/2006 (point 3), the product does not contain substances relevant for classification.

SECTION 4. FIRST AID**4.1. Description of first aid****By inhalation:**

Rinse mouth and nose with water. Move 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.

By eye contact:

Rinse eyes with plenty of room temperature water for at least 15 minutes. Avoid rubbing or closing your eyes. If you wear contact lenses, remove them if they are not stuck to your eyes, as this may cause worse damage. In any case, after washing, a medical professional should be consulted with the Product Safety Data Sheet.

By ingestion/aspiration:

Do not induce vomiting. In case of vomiting, keep head tilted forward to prevent inhalation. Have victim rest. In case of unconsciousness, do not administer anything by mouth until medically supervised. Rinse mouth and throat, as they may have been affected by ingestion.

4.2. Main symptoms and acute and delayed effects

Acute and delayed effects are as indicated in sections 2 and 11.

4.3. Indication of any medical care and special treatment to be given immediately

Symptomatic treatment.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I**SECTION 5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media:**

The product is not flammable under normal conditions of storage, handling and use. In case of ignition due to improper handling, storage or use, preferably use multi-purpose powder extinguishers (ABC powder), water spray, carbon dioxide or foam according to local laws.

Unsuitable extinguishing media:

Not relevant.

5.2. Specific hazards arising from the substance or mixture

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

5.3. Recommendations for fire-fighting personnel

Depending on the magnitude of the fire, it could be necessary the use of full protective clothing and self-contained breathing apparatus. A minimum of emergency installations or response elements (fire blankets, first aid kit, etc.) should be ready according to local laws.

Additional provisions:

Act according to the Site Emergency Plan and the Fact Sheets about response to accidents and other emergencies. Eliminate any ignition source. In case of fire, refrigerate the containers and storing tanks of products which could ignite, explode or BLEVE as a consequence of high temperatures. Avoid spilling into the aquatic environment the products used for fire extinguishing.

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

Isolate leaks when it does not entail an additional risk for the persons doing the task. When exposed to a potential product spill, the use of personal protection elements is mandatory (see section 8). Evacuate the area and keep unprotected persons away.

For emergency personnel:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2. Environmental precautions

Product not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I**6.3. Methods and material for containment and cleaning up**

Recommended:

Absorb spillage with sand or inert absorbent and remove 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 fire and explosion prevention

Non-flammable product 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 avoid.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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: 30 °C
Maximum time: 24 months

B.- General storage conditions.

Keep in original containers tightly closed, in case of transfer make sure that the material of the container is compatible with the product, recommended materials: HDPE, PP, INOX 304, INOX 316.

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

SAFETY DATA SHEET
according to Commission Regulation (EU) 2020/878
FLOIXEM® I

7.3. Specific end uses

Except for the indications already specified, no special recommendations regarding the uses of this product are necessary.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Substances for which occupational exposure limit values have to be monitored in the working environment:

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

8.2. Exposure controls

A.- General health and safety measures in the working 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.

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	EPI	Marking	CEN Standards	Remarks
 Mandatory hand protection	Protective gloves against minor hazards			Replace gloves at any sign of deterioration. For prolonged exposure to the product for professional/industrial users, the use of CE III gloves is recommended, according to EN 21420 and EN ISO 374.

SAFETY DATA SHEET
according to Commission Regulation (EU) 2020/878
FLOIXEM® I



D.- Eye and face protection

Pictogram	EPI	Marking	CEN Standards	Remarks
 Mandatory face protection	Panoramic splash goggles and/or projections		EN 166 EN ISO 4007	Clean daily and disinfect periodically according to manufacturer's instructions. Recommended for use where there is a risk of splashing.

E.- Body protection

Pictogram	EPI	Marking	CEN Standards	Remarks
	Work clothes		EN ISO 13034	Replace at any sign of deterioration. For prolonged periods of exposure to product for professional/industrial users will be makes EC III advisable, in accordance with the standards EN ISO 6529, EN ISO 6530, EN ISO 13688, EN 464
	Work footwear anti-slip		EN ISO 20347	Replace at any sign of deterioration. For prolonged periods of exposure to product for professional/industrial users will be makes EC III advisable, in accordance with the standards EN ISO 20345and EN 13832-1

F. - Emergency Supplementary 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

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I

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 the product data sheet/specification sheet.

Physical state at 20 °C:

Appearance:	Liquid, clear fluid
Colour:	Purple
Odour:	No odour
Olfactory threshold:	Not relevant *

Volatility:

Boiling temperature at atmospheric pressure:	>100°C
Vapor pressure at 20°C:	0,1 mbar at 20°C
Vapor pressure at 50 °C:	Not relevant *
Evaporation rate at 20 °C:	Not relevant *

Product characterisation:

Density at 20 °C:	1,030-1,035 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:	8,7-8,8
Vapor 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:	Soluble in polar solvents
Decomposition temperature:	Not relevant
Melting point/freezing point:	approx. 0°C

Flammability:

Flash point:	>100°C
Flammability (solid, gas):	Not relevant *
Auto-ignition temperature:	>400°C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Explosiveness (Solid):

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

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I

Particle characteristics:

Equivalent mean diameter: Not relevant *

*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 *

Oxidizing properties: Not relevant *

Corrosive to metals: Not relevant *

Heat of combustion: Not relevant *

Aerosols-total percentage (by mass) of constituents flammable: Not relevant *

Other security features:

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.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions are not expected if the technical instructions for chemical storage are followed (see section 7).

10.2. Chemical stability

Chemically stable under specified conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to be avoided

To be handled and stored at room temperature:

Shock and friction	Air contact	Heating	Solar Light
Not applicable	Not applicable	Not applicable	Avoid direct impact

10.5. Incompatible materials

Acids, bases and oxidants	Water	Oxidising substances	Fuel materials
Avoid strong acids, bases and oxidizing agents.	Not applicable	Avoid direct impact	Not applicable

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I

10.6. Hazardous decomposition products

Not expected if handled according to the safety data sheet.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as 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.

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):

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.- Sensitization effects:

- Respiratory: Based on available data, the classification criteria are not met and there are no substances classified as hazardous with sensitizing 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.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I

- 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.

11.2. Information concerning other hazards

This product does not contain endocrine disrupting components that have an effect on human health.

No information on other adverse health effects is available.

SECTION 12. ECOLOGICAL INFORMATION**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available.

12.5. Results of the PBT and vPvB assesment

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

12.6. Endocrine disrupting properties

The product does not contain endocrine disrupting components that 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**

SAFETY DATA SHEET
according to Commission Regulation (EU) 2020/878
FLOIXEM® I

Type of waste (Regulation (EU) No 1357/2014):

Code	Description	Type of waste
-	-	Not Dangerous

Waste management (disposal and recovery):

Consult the authorized waste manager for recovery and disposal operations in accordance with 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), Community or national provisions related to waste management are listed.

EU legislation: 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	DNA	IMDG	IATA/ICAO
14.1. UN number or ID number	-	-	-	-
14.2. United Nations proper shipping name	-	-	-	-
14.3. Transport hazard class(es)	-	-	-	-
14.4. Packing group	-	-	-	-
14.5. Environmental hazards	-	-	-	-

14.6. Particular 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 (Annex XVII of the REACH Regulation): Not relevant.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I

- List of substances subject to authorization (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.
- Active substances which have been included in Article 95 of Regulation (EU) No. 528/2012: Not relevant.
- Regulation (EU) No 2024/590 on substances that deplete the ozone layer: Not relevant.

Seveso III:

Not relevant

Special provisions for the protection of people or the environment:

It is recommended to use the information collected in this safety data sheet as input data for 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, Authorization 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

Chemical safety assessment has not been carried out.

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 sentences referred to in Section 2:

Not relevant

Texts of the legislative sentences referred to in Section 3:

Not relevant

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878

FLOIXEM® I**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.

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/Toxics

STOT: Specific target organ toxicity

IARC: International Agency for Research on Cancer

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

REACH: Registration, Evaluation, Authorization and Restriction of Chemical substances

ADR: European Agreement concerning the International Carriage of Goods by Road

RID: European Agreement concerning the international carriage of dangerous goods by rail

DNA: 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 Organization