

# Deckblatt zum Sicherheitsdatenblatt

## Fiche de données de sécurité: page de garde

### Pagina di copertina della scheda di dati di sicurezza

überarbeitet am / élaborée le / elaborata il **03 03 2025**

ersetzt Version vom / remplace la version du / sostituisce la versione del **na**

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#### Produktidentifikation / Identification du produit / Identificatore del prodotto:

Handelsname / Nom commercial / Nome del prodotto **PLUSERIES 25 Second Prepolymer**

**PLUSERIES 60 Second Prepolymer**

**PLUSERIES Composite Prepolymer**

Verwendungszweck **Klebstoff**

Usage **Colle**

Usi pertinenti identificati **Colle**

#### Lieferant, der das Sicherheitsdatenblatt übermittelt:

Fournisseur qui transmet la fiche de données de sécurité:

Informazioni sul fornitore della scheda di dati di sicurezza:

FREY Orthopädie-Bedarf AG  
Panoramaweg 35  
CH-5504 Othmarsingen  
Tel: 062 887 45 00

**Nationale Notfallnummer:** **145** (24h erreichbar, Tox Info Suisse, Zürich; für Anrufe aus der Schweiz, Auskünfte auf Deutsch, Französisch und Italienisch)

**Numéro d'urgence national:** **145** (joignable 24 h sur 24, Tox Info Suisse, Zurich ; pour les appels effectués depuis la Suisse, informations en français, allemand et italien)

**Numero telefonico di emergenza:** **145** (Tox Info Suisse, raggiungibile 24 ore su 24)

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Deckblatt erstellt / Page de garde élaborée le / Pagina di copertina realizzata il: **03 03 2025**

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**SDS #** FAB-003-EU  
**Product Name** PLUSERIES 25 Second Curative  
PLUSERIES 60 Second Curative  
PLUSERIES Composite Curative

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

**Recommended Use** For industrial use Adhesive

### 1.3. Details of the Supplier of the Safety Data Sheet

#### Supplier

Fabtech Systems LLC  
PO Box 2248  
Everett, WA 98213

#### For further information, please contact

**Contact Point** Fabtech Systems: 1-800-322-8324  
**Email Address** [info@fabtechsystems.com](mailto:info@fabtechsystems.com)

### 1.4. Emergency telephone number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### *Regulation (EC) No 1272/2008*

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.2. Label Elements

#### **Product Identifier**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Signal Word**

None

Contains Piperazine May produce an allergic reaction  
EUH210 - Safety data sheet available on request

### 2.3. Other Hazards

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 MIXTURES

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Piperazine	Present	110-85-0	<1	Skin Corr. 1B (H314) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Repr. 2 (H361fd)	Not determined

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### Section 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water; Remove contaminated clothing and shoes; Wash clothing before reuse; Call a physician if irritation develops and persists.
<b>Inhalation</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

<b>Symptoms</b>	Symptoms/injuries after inhalation: May cause irritation to the respiratory tract. May produce an allergic reaction Symptoms/injuries after skin contact: May cause an allergic skin reaction. May cause skin irritation. Repeated exposure may cause skin dryness or cracking. Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Symptoms/injuries after ingestion: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
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#### 4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

<b>Notes to Physician</b>	Treat symptomatically.
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### Section 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing Media

##### Suitable Extinguishing Media

Foam, powder, carbon dioxide (CO<sub>2</sub>), water spray.

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**Unsuitable Extinguishing Media**

Do not use water jet.

**5.2. Special Hazards Arising from the Substance or Mixture**

Products of combustion may include, and are not limited to: oxides of carbon. Hydrogen. Cyanides. Isocyanates. Nitrogen oxides. Toxic fumes. Aldehydes. Ketones. Halogenated compounds. Bromine. Hydrocarbons.

**5.3. Advice for Firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**For Emergency Responders**

Use personal protection recommended in Section 8.

**6.2. Environmental Precautions**

Prevent entry to sewers and public waters. See Section 12 for additional Ecological Information.

**6.3. Methods and Material for Containment and Cleaning Up**

**Methods for Containment**

Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

**Methods for Clean-Up**

Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

**6.4. Reference to Other Sections**

See Section 13: DISPOSAL CONSIDERATIONS.

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for Safe Handling**

**Advice on Safe Handling**

Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, spray, vapors. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

**General Hygiene Considerations**

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash hands after handling the product.

**7.2. Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions**

Keep out of the reach of children. Keep container tightly closed. Store locked up.

**7.3. Specific End Use(s)**

**Specific Use(s)**

For industrial use. Adhesive.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control Parameters**

**Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Piperazine 110-85-0	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Piperazine 110-85-0	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.028 ppm TWA: 0.1 mg/m <sup>3</sup> STEL: 0.084 ppm STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.003 ppm TWA: 0.1 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Piperazine 110-85-0	STEL 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	-	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 ppm STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>

**8.2. Exposure Controls**

**Engineering Controls**

Ensure good ventilation of the work station. Showers. Eyewash stations.

**Personal Protective Equipment**

**Eye/Face Protection**

Safety glasses or goggles are recommended when using product.

**Hand Protection**

Wear suitable gloves resistant to chemical penetration.

**Skin and Body Protection**

Wear suitable protective clothing.

**Respiratory Protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on Basic Physical and Chemical Properties**

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Black liquid (Composite Curative) Tan liquid (25 Second Curative)	<b>Odour</b>	Not determined
<b>Colour</b>	Not determined	<b>Odour Threshold</b>	Not determined
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	Not determined		
<b>Melting point / freezing point</b>	Not determined		
<b>Boiling point / boiling range</b>	Not determined		
<b>Flash point</b>	>93.4 °C / >200.1 °F		
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable		
<b>Flammability Limit in Air</b>			
<b>Upper flammability or explosive limits</b>	Not determined		
<b>Lower flammability or explosive limits</b>	Not determined		
<b>Vapour Pressure</b>	3hPa (25°C/77 °F)		
<b>Vapour Density</b>	1	(Air=1) (25 Second Curative)	
<b>Relative Density</b>	1.24 g/cm <sup>3</sup> (25 Second Curative); 1.225 g/cm <sup>3</sup> (60 Second Curative / Composite Curative) at 25 °C		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Water Solubility	Not determined	
Solubility(ies)	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic Viscosity	20000 mPa.s (Composite Curative)	
Explosive Properties	Not determined	
Oxidising Properties	Not determined	

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not reactive under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of Hazardous Reactions

#### **Possibility of Hazardous Reactions**

None under normal processing.

### 10.4. Conditions to Avoid

Heat. Incompatible materials. Freezing. Moisture.

### 10.5. Incompatible Materials

Acids. alcohols. Aluminium. Amines. ammonia. Bases. Copper and its alloys. Fluorine. humid air. Iron. Isocyanates. Oxidizers. Phosphorus. Strong alkalis. Strong reducing agents. Water. zinc. Humid air.

### 10.6. Hazardous Decomposition Products

May include, and are not limited to: oxides of carbon. Hydrocarbons. Hydrogen cyanide. Isocyanates. Nitrogen oxides.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

#### **Acute toxicity**

#### **Product Information**

<b>Inhalation</b>	Do not inhale.
<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Ingestion</b>	Do not ingest.

#### **Unknown Acute Toxicity**

- 0 % of the mixture consists of ingredient(s) of unknown toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Piperazine	= 600 mg/kg ( Rat )	= 1590 mg/kg ( Rabbit )	

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified.
<b>Sensitisation</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Piperazine		10000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	

**12.2. Persistence and Degradability**

Not determined.

**12.3. Bioaccumulative Potential**

There is no data for this product.

**12.4. Mobility in Soil**

**Mobility**

Not determined.

**12.5. Results of PBT and vPvB Assessment**

Not determined.

**12.6. Other Adverse Effects**

Not determined.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste Treatment Methods**

**Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Improper disposal or reuse of this container may be dangerous and illegal.

**Section 14: TRANSPORT INFORMATION**

**IMDG**

14.2 Proper Shipping Name Not regulated

**RID**

14.2 Proper Shipping Name Not regulated

**ADR**

14.2 Proper Shipping Name Not regulated

**IATA**

14.2 Proper Shipping Name Not regulated

**Section 15: REGULATORY INFORMATION**

**15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**National Regulations**

France

**Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number	Title
Piperazine 110-85-0	RG 49, RG 49bis, RG 65, RG 66	

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	PICCS	ENCS	IECSC	AICS	KECL
Piperazine 110-85-0 (<1)	X	X	X	X	X	X	X	X

**Legend**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances



**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**Section 16: OTHER INFORMATION**

**Full text of H-Statements referred to under section 3**

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend**

TWA TWA (time-weighted average)

Ceiling Maximum limit value

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

STEL

\*

STEL (Short Term Exposure Limit)

Skin designation

**Classification Procedure**

Calculation method

**Issue Date:** 19-Jul-2022

**Revision Date:** 20-Jul-2022

**Revision Note:** New format. Content review 2023

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2015/830**

**Disclaimer**

The information provided in this 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