Safety Data Sheet

Issue Date: 19-Jul-2022 **Revision Date:** 10-Aug-2023 **Version** 1

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

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

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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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

Eye Contact 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.

Skin Contact 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.

Inhalation 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.

Ingestion 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

Symptoms 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.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media
Foam, powder, carbon dioxide (CO2), 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.

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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/m³ STEL 0.3 mg/m³	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³	TWA: 0.1 mg/m³
Chemical name	**Italy**	**Portugal**	**Netherlands**	**Finland**	**Denmark**
Piperazine 110-85-0	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³	TWA: 0.028 ppm TWA: 0.1 mg/m³ STEL: 0.084 ppm STEL: 0.3 mg/m³	TWA: 0.003 ppm TWA: 0.1 mg/m³
Chemical name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Piperazine 110-85-0	STEL 0.3 mg/m³ TWA: 0.1 mg/m³	-	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³	TWA: 0.1 ppm STEL: 0.3 mg/m³	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³

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

Physical state	Liquid		
Appearance	Black liquid (Composite Curative) Tan liquid (25 Second Curative)	**Odour**	Not determined
Colour	Not determined	**Odour Threshold**	Not determined

Property	Values	Remarks • Method
pH	Not determined	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	>93.4 °C / >200.1 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid-Not applicable	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapour Pressure	3hPa (25°C/77 °F)	
Vapour Density	1	(Air=1) (25 Second Curative)
Relative Density	1.24 g/cm³ (25 Second Curative); 1.225 g/cm³ (60 Second Curative / Composite Curative) at 25 °C	

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Property	Values	Remarks • Method
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

Inhalation	Do not inhale.
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Ingestion	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).

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Component Information

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

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

Sensitisation Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard 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 Lepomis macrochirus 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.

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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

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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	**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**		
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification Procedure

Calculation method

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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

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