Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 2/10/2019 Revision date: 2/10/2019 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Mixtures

: PLUSERIES 25 Second Curative Product name

PLUSERIES 60 Second Curative **PLUSERIES Composite Curative**

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

1.2.1. Relevant identified uses

: Industrial use Main use category Use of the substance/mixture : Adhesive.

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

Supplier Fabtech Systems LLC

PO Box 2248 98213 Everett, WA - USA T 1-800-322-8324

staff@fabtechsystems.com

Distributor

Orthopartners B.V

Jan van derHeijdenstraat 18-20 2665 JA Bleiswijk, N.L

Emergency telephone number

: CHEMTREC 24hr 800-424-9300 **Emergency number**

International 1-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified.

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements EUH208 - Contains Piperazine. May produce an allergic reaction

EUH210 - Safety data sheet available on request

Unknown acute toxicity (CLP) - SDS 24.68% of the mixture consists of ingredient(s) of unknown acute oral toxicity

24.68% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

24.68% of the mixture consists of ingredient(s) of unknown acute inhalation (vapours) toxicity

Unknown hazards to the aquatic environment Not applicable.

(CLP)

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. **Substances**

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Piperazine	(CAS No) 110-85-0 (EC No) 203-808-3 (EC Index No) 612-057-00-4	<1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361fd

Full text of H-statements: see section 16

2/10/2019 EN (English) 1/6

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after 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.

First-aid measures after 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.

First-aid measures after eye contact

IF IN EYES: 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.

First-aid measures after 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.

Most important symptoms and effects, both acute and delayed

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 drvness 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

Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Foam, powder, carbon dioxide (CO2), water spray

Unsuitable extinguishing media : Do not use water iet.

Special hazards arising from the substance or mixture

Fire hazard

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.

Advice for firefighters

Protection during firefighting

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

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

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

Environmental precautions

Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

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 cleaning up

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

Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

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

Hygiene measures

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

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

Not available.

2/10/2019 EN (English) 2/6

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Piperazine (110-85-0) EU IOELV TWA (mg/m³) 0.1 mg/m³ EU IOELV STEL (mg/m³) 0.3 mg/m³ United Kingdom WEL TWA (mg/m³) 0.1 mg/m³ United Kingdom WEL STEL (mg/m³) 0.3 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Safety glasses or goggles are recommended when using product.

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.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Black (Composite Curative); Tan (25 Seccond Curative)

Odour : No data available Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point No data available **Boiling** point : No data available : > 200.1 °F (93.4 °C) Flash point Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : Not flammable : 3 hPa (77 °F / 25 °C) Vapour pressure

Relative vapour density at 20 °C : 1 (air=1) (25 Second Curative)

Relative density : No data available

Density : 1.24 g/cm³ (25 Second Curative); 1.225 g/cm³ (60 Second Curative / Composite Curative) at 25

°C

Solubility : No data available
Partition coefficient n-octanol/water : No data available
Viscosity, kinematic : No data available

Viscosity, dynamic : 20000 mPa.s (Composite Curative)

Explosive properties : No data available
Oxidising properties : No data available

2/10/2019 EN (English) 3/6

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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 : Not classified.

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Piperazine (110-85-0)	
LD50 oral rat	600 mg/kg
LD50 dermal rabbit	1590 mg/kg
Unknown acute toxicity (CLP) - SDS	24.68% of the mixture consists of ingredient(s) of unknown acute oral toxicity 24.68% of the mixture consists of ingredient(s) of unknown acute dermal toxicity 24.68% of the mixture consists of ingredient(s) of unknown acute inhalation (vapours) toxicity
Skin corrosion/irritation	Not classified.

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation : Not classified.

Respiratory or skin sensitisation : Contains Pipera

Respiratory or skin sensitisation : Contains Piperazine. May produce an allergic reaction

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.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Piperazine (110-85-0)	
LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

Unknown hazards to the aquatic environment : Not applicable (CLP)

12.2. Persistence and degradability

PLUSERIES Curative	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

PLUSERIES Curative	
Bioaccumulative potential	Not established.
Piperazine (110-85-0)	
Piperazine (110-85-0)	

2/10/2019 EN (English) 4/6

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

None.

Data sources : 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.

Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com

NEXREG

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 2	Reproductive toxicity, Category 2

2/10/2019 EN (English) 5/6

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Sens. 1	Sensitisation — Skin, Category 1
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
EUH208	Contains . May produce an allergic reaction
EUH210	Safety data sheet available on request

SDS EU (REACH Annex II)_NEXREG_NEW

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2/10/2019 EN (English) 6/6