

RockHardscp FLX Clear Hardener

Safety Data Sheet

SECTION 1: Identification

1.1. Identification

Product name : Flexx 8200 Hardener

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

Product use : Manufacturing

1.3. Details of the supplier of the safety data sheet

SolidCast Polymer Technology, LLC
5422 Chapel Brook Dr.
Houston, TX 77069

1.4. Emergency telephone number

Emergency number : 281-797-0457

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute Tox. 4 (Oral) H302
Skin and Eye Dam 1 H314
Eye Dam. 1 H318
Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H302 – Harmful if swallowed
H314 Causes serious Skin and Eye damage
H317 – May cause an allergic skin reaction
H318 – Causes serious eye damage

Precautionary statements (GHS US) :

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash hands, forearms and face thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P272 – Contaminated work clothing must not be allowed out of the workplace
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 – If swallowed: Call a poison center or doctor if you feel unwell
P302+P352 – If on skin: Wash with plenty of water
P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 – Immediately call a poison center or doctor
P321 – Specific treatment (see supplemental first aid instruction on this label)
P330 – Rinse mouth.
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention. P363 – Wash contaminated clothing before reuse.
P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|----------------------|--------------|--|
| Phenol, styrenated | (CAS-No.) 61788-44-1 | Trade Secret | Not classified |
| Poly[oxy(methyl-1,2-ethanediy)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) | (CAS-No.) 39423-51-3 | Trade Secret | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- | (CAS-No.) 2855-13-2 | Trade Secret | Acute Tox. 4 (Oral), H302 |
| Polyoxy propylenediamine | (CAS-No.) 9046-10-10 | Trade Secret | Acute Tox. 4 (Oral), H302 Skin Corr. 1 H314 Eye Dam. 1, H318 Aquatic Acute 3, H401 Aquatic Chronic 3, H411 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Call a poison center/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. 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. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth. Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| |
|--|
| Phenol, styrenated (61788-44-1) |
| Not applicable |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3) |
| Not applicable |
| Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2) |
| Not applicable |

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Protective gloves.
- Eye protection : Safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Very pale light yellow
- Odor : Amine-like
- Odor threshold : No data available
- pH : 10.9
- Melting point : Not applicable
- Freezing point : No data available
- Boiling point : 247 °C
- Flash point : 182 °C
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : Not applicable.
- Vapor pressure : No data available
- Relative vapor density at 20 °C : No data available
- Relative density : No data available
- Specific gravity / density : 1.03
- Solubility : No data available
- Log Pow : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available

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Explosion limits : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| 8200 Flexx Hardener | |
|--|---------------------------------|
| ATE US (oral) | 864.93 mg/kg body weight |
| Phenol, styrenated (61788-44-1) | |
| LD50 oral rat | 2100 – 6700 mg/kg |
| LD50 dermal rabbit | > 7940 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.5 mg/l (Exposure time: 6 h) |
| ATE US (oral) | 2100 mg/kg body weight |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3) | |
| ATE US (oral) | 500 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2) | |
| LD50 oral rat | 1030 mg/kg |
| ATE US (oral) | 1030 mg/kg |

Skin corrosion/irritation : Not classified
 pH: 10.9

Serious eye damage/irritation : Causes serious eye damage.
 pH: 10.9

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated Exposure : Not classified

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| | |
|-------------------------------------|--|
| Aspiration hazard | : Not classified |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|--|
| Ecology – general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
|-------------------|--|

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

| | |
|----------------|---|
| EC50 Daphnia 1 | 14.6 – 21.5 mg/l (Exposure time: 48 h – Species: Daphnia magna [semi-static]) |
|----------------|---|

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Phenol, styrenated (61788-44-1)

| | |
|---------|----------------|
| Log Pow | > 4 (at 22 °C) |
|---------|----------------|

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

| | |
|---------|-----------------|
| Log Pow | 0.79 (at 23 °C) |
|---------|-----------------|

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
|-------------------------|---|

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Phenol, styrenated (61788-44-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU – XU – indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |
|--------------------------|---|

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Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2)

U.S. – New Jersey – Right to Know Hazardous Substance List

SECTION 16: Other information

Full text of H-phrases:

| | |
|-----------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 2 | Hazardous to the aquatic environment – Acute Hazard Category 2 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H314 | May cause serious skin and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H401 | Toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.