



Safety Data Sheet

Prepared in Accordance with HCS 29
C.F.R. 1910.1200

1. Identification of the Substance/Mixture and the Company/Undertaking

- 1.1 Product Identifier** 0148S7NL **Revision Date:** 12/05/2022
Product Name: PYROCRETE 241 **Supersedes Date:** 11/11/2022
- 1.2 Relevant identified uses of the substance or mixture and uses advised against** Fireproofing material.
- 1.3 Details of the supplier of the safety data sheet**
- Manufacturer:** Carboline Global Inc.
2150 Schuetz Road
St. Louis, MO USA 63146
- Regulatory / Technical Information:
Contact Carboline Technical Services at
1-800-848-4645
- Datasheet Produced by:** Schlereth, Ken - regulatory@carboline.com
- 1.4 Emergency telephone number:** CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)
HEALTH - Pittsburgh Poison Control 1-412-681-6669

2. Hazard Identification

2.1 Classification of the substance or mixture

Carcinogenicity, category 1A
 Serious Eye Damage, category 1
 STOT, single exposure, category 3, RTI
 Skin Irritation, category 2
 Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

CALCIUM OXIDE, SODIUM SILICATE, MICA, MICROCRYSTALLINE SILICA, PORTLAND CEMENT

HAZARD STATEMENTS

| | | |
|--|---------|--------------------------------------|
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| Serious Eye Damage, category 1 | H318 | Causes serious eye damage. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| Carcinogenicity, category 1A | H350-1A | May cause cancer. |

PRECAUTION PHRASES

| | |
|--------------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284 | Wear respiratory protection. |
| P301+310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P308+313 | IF exposed or concerned: Get medical advice/attention |
| P333+313 | If skin irritation or rash occurs: Get medical advice/attention. |

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous ingredients

| Name According to EEC | EINEC No. | CAS-No. | % | Classifications | |
|-----------------------|-----------|------------|-----------|-----------------|---|
| PORTLAND CEMENT | 266-043-4 | 65997-15-1 | 25 - <50 | H315-317-318 | Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1 |
| MICA | 310-127-6 | 12001-26-2 | 10 - <25 | H319-335 | Eye Irrit. 2, STOT SE 3 RTI |
| LIMESTONE | 215-279-6 | 1317-65-3 | 2.5 - <10 | H315-319 | Eye Irrit. 2, Skin Irrit. 2 |

| | | | | | |
|-------------------------|-----------|------------|--------------|---|---------------------|
| CALCIUM OXIDE | 1305-78-8 | 1.0 - <2.5 | H315-318-335 | Eye Dam. 1, Skin Irrit. 2, STOT SE 3 RTI | |
| SODIUM SILICATE | 215-687-4 | 1344-09-8 | 1.0 - <2.5 | H290-314-335 | |
| MICROCRYSTALLINE SILICA | 238-878-4 | 14808-60-7 | 0.1 - <1.0 | H350-372 | Carc. 1A, STOT RE 1 |

| <u>CAS-No.</u> | <u>M-Factors</u> |
|----------------|------------------|
| 65997-15-1 | 0 |
| 12001-26-2 | 0 |
| 1317-65-3 | 0 |
| 1305-78-8 | 0 |
| 1344-09-8 | 0 |
| 14808-60-7 | 0 |

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

AFTER INHALATION: Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: Wash off with soap and plenty of water.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

No Information

5. Fire-fighting Measures

5.1 Extinguishing Media:

None Known

UNUSUAL FIRE AND EXPLOSION HAZARDS: No Information

FOR SAFETY REASONS NOT TO BE USED: No Information

5.2 Special hazards arising from the substance or mixture

No Information

5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROCEDURES: The product is not flammable.

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: No Information

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Sweep up to prevent slipping hazard. Forms slippery/greasy layers with water.

6.2 Environmental precautions

No Information

6.3 Methods and material for containment and cleaning up

No Information

6.4 Reference to other sections

No Information

7. Handling and Storage**7.1 Precautions for safe handling**

INSTRUCTIONS FOR SAFE HANDLING : Avoid breathing dust. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

PROTECTION AND HYGIENE MEASURES : Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Exposure to moisture.

STORAGE CONDITIONS: Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No Information

8. Exposure Controls/Personal Protection**8.1 Control parameters****Ingredients with Occupational Exposure Limits (US)**

| <u>Name</u> | <u>CAS-No.</u> | <u>ACGIH TWA</u> | <u>ACGIH STEL</u> | <u>ACGIH Ceiling</u> |
|-------------------------|----------------|------------------|-------------------|----------------------|
| PORTLAND CEMENT | 65997-15-1 | 1 MGM3 | N/E | N/E |
| MICA | 12001-26-2 | 3 MGM3 | N/E | N/E |
| LIMESTONE | 1317-65-3 | N/E | N/E | N/E |
| CALCIUM OXIDE | 1305-78-8 | 2 MGM3 | N/E | N/E |
| SODIUM SILICATE | 1344-09-8 | N/E | N/E | N/E |
| MICROCRYSTALLINE SILICA | 14808-60-7 | 0.025 MGM3 | N/E | N/E |

| <u>Name</u> | <u>CAS-No.</u> | <u>OSHA PEL</u> | <u>OSHA STEL</u> |
|-------------------------|----------------|--|------------------|
| PORTLAND CEMENT | 65997-15-1 | 5 MGM3 15 MGM3 | N/E |
| MICA | 12001-26-2 | 20. MPPCF | N/E |
| LIMESTONE | 1317-65-3 | 5 MGM3 15 MGM3 5 MGM3 15 MGM3 5 MGM3 15 MGM3 | N/E |
| CALCIUM OXIDE | 1305-78-8 | 5 MGM3 | N/E |
| SODIUM SILICATE | 1344-09-8 | N/E | N/E |
| MICROCRYSTALLINE SILICA | 14808-60-7 | 0.05 MGM3 | N/E |

FURTHER ADVICE: No Information

8.2 Exposure controls**Personal Protection****RESPIRATORY PROTECTION:** Effective dust mask. Use NIOSH approved respiratory protection.**EYE PROTECTION:** Safety glasses with side-shields.**HAND PROTECTION:** For prolonged or repeated contact use protective gloves.**OTHER PROTECTIVE EQUIPMENT:** None.**ENGINEERING CONTROLS:** Avoid dust accumulation in enclosed space.**9. Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

| | |
|---|-----------------------|
| Appearance: | Grey, Speckled Powder |
| Physical State | Solid |
| Odor | Dusty |
| Odor threshold | N/D |
| pH | N/D |
| Melting point / freezing point (°C) | N/D |
| Boiling point/range (°C) | N/A - N/A |
| Flash Point (°C) | None |
| Evaporation rate | N/A |
| Flammability (solid, gas) | Not determined |
| Upper/lower flammability or explosive limits | N/A - N/A |
| Vapour Pressure, mmHg | N/A |
| Vapour density | N/A |
| Relative density | Not determined |
| Solubility in / Miscibility with water | N/D |
| Partition coefficient: n-octanol/water | Not determined |
| Auto-ignition temperature (°C) | Not determined |
| Decomposition temperature (°C) | Not determined |
| Viscosity | Unknown |
| Explosive properties | Not determined |
| Oxidising properties | Not determined |

9.2 Other information

| | |
|--|------|
| VOC Content g/l: | 0 |
| Specific Gravity (g/cm³) | 0.12 |

10. Stability and Reactivity**10.1 Reactivity**

No Information

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Exposure to moisture.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

None known.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50: N/D

Inhalation LC50: N/D

Irritation: Skin irritation, category 2

Corrosivity: Serious eye damage, category 1

Sensitization: Skin sensitizer, category 1

Repeated dose toxicity: Unknown

Carcinogenicity: Carcinogenicity, category 1A

Mutagenicity: Unknown

Toxicity for reproduction: Unknown

STOT-single exposure: STOT, single exposure, category 3

STOT-repeated exposure: unknown

Aspiration hazard: Unknown

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Oral LD50</u> | <u>Dermal LD50</u> | <u>Vapor LC50</u> | <u>Gas LC50</u> | <u>Dust/Mist LC50</u> |
|----------------|----------------------|------------------|--------------------|---------------------------|-----------------|-----------------------|
| 65997-15-1 | PORTLAND CEMENT | Not Available | | Not Available | 0.000 | 0.000 |
| 12001-26-2 | MICA | Not Available | Not Available | Not Available | 0.000 | 0.000 |
| 1317-65-3 | LIMESTONE | Not Available | Not Available | 5,000 mg/kg, rat, oral | 0.000 | 0.000 |
| 1305-78-8 | CALCIUM OXIDE | Not Available | | Not Available | 0.000 | 0.000 |
| 1344-09-8 | SODIUM SILICATE | Not Available | | Not Available | 0.000 | 0.000 |

14808-60-7 MICROCRYSTALLINE SILICA 22500 mg/kg Not Available Not Available 0.000 0.000

Additional Information:

The cement contained within this product may cause dermal sensitization due to the potential presence of trace amounts of hexavalent chromium. Constituents of this product may include crystalline silica which, if inhalable, may cause silicosis, a form or progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group 1 carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. Constituents may also include abestiform or non-asbestiform tremolite or other silicates as impurities, and above dei minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

12. Ecological Information

12.1 Toxicity:

| | |
|----------------------|---------|
| EC50 48hr (Daphnia): | Unknown |
| IC50 72hr (Algae): | Unknown |
| LC50 96hr (fish): | Unknown |

12.2 Persistence and degradability: Unknown**12.3 Bioaccumulative potential:** Unknown**12.4 Mobility in soil:** Unknown**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.**12.6 Other adverse effects:** Unknown

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>EC50 48hr</u> | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|-------------------------|------------------|------------------|------------------|
| 65997-15-1 | PORTLAND CEMENT | No information | No information | No information |
| 12001-26-2 | MICA | No information | No information | No information |
| 1317-65-3 | LIMESTONE | 1,000 mg/l | 200 mg/l | 10,000 mg/l |
| 1305-78-8 | CALCIUM OXIDE | No information | No information | No information |
| 1344-09-8 | SODIUM SILICATE | No information | No information | No information |
| 14808-60-7 | MICROCRYSTALLINE SILICA | No information | No information | No information |

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: Dispose of in accordance with local regulations.

14. Transport Information

| | |
|---|---------------|
| 14.1 UN number | None |
| 14.2 UN proper shipping name | Not Regulated |
| Technical name | N/A |
| 14.3 Transport hazard class(es) | None |
| Subsidiary shipping hazard | N/A |
| 14.4 Packing group | N/A |
| 14.5 Environmental hazards | No |
| 14.6 Special precautions for user | Unknown |
| EmS-No.: | N/A |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Unknown |

15. Regulatory Information

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

U.S. Federal Regulations: As follows -

CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No SARA 313 substances exist in this product above de minimis concentrations.

Toxic Substances Control Act:

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| ALUMINUM HYDROXIDE | 21645-51-2 |
| VERMICULITE | 1318-00-9 |
| AMORPHOUS SILICATE | 93763-70-3 |

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| ALUMINUM HYDROXIDE | 21645-51-2 |
| VERMICULITE | 1318-00-9 |
| AMORPHOUS SILICATE | 93763-70-3 |

CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

International Regulations: As follows -*** Canadian DSL:**

All chemical ingredients included on inventory (DSL)

15.2 Chemical Safety Assessment:

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

16. Other Information**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

| | |
|------|---|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

Reasons for revision

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.