



**Safety Data Sheet**  
 prepared to UN GHS Revision 3

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

<b>1.1 Product Identifier</b>	0148S7NL		
<b>Product Name:</b>	PYROCRETE 241	<b>Revision Date:</b>	12/09/2016
		<b>Supersedes Date:</b>	05/30/2015
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Fireproofing Material		
<b>1.3 Details of the supplier of the safety data sheet</b>			
<b>Manufacturer:</b>	Carboline Company 2150 Schuetz Road St. Louis, MO USA 63146		
	Regulatory / Technical Information: Contact Carboline Technical Services at 1-800-848-4645		
<b>Datasheet Produced by:</b>	Schlereth, Ken - ehs@stoncor.com		
<b>1.4 Emergency telephone number:</b>	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

### GHS 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.

### GHS 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
P332+313	If skin irritation occurs: 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

CAS-No.	Chemical Name	%
65997-15-1	PORTLAND CEMENT	25-50
12001-26-2	MICA	10-25
93763-70-3	AMORPHOUS SILICATE	2.5-10
1317-65-3	LIMESTONE	2.5-10
7778-18-9	GYPSUM / CALCIUM SULFATE DIHYDRATE	1.0-2.5
1305-78-8	CALCIUM OXIDE	1.0-2.5

1309-48-4	MAGNESIUM OXIDE	1.0-2.5
1344-09-8	SODIUM SILICATE	1.0-2.5
14808-60-7	MICROCRYSTALLINE SILICA	0.1-1.0

<u>CAS-No.</u>	<u>GHS Symbols</u>	<u>GHS Hazard Statements</u>	<u>M-Factors</u>
65997-15-1	GHS05-GHS07	H315-317-318	0
12001-26-2	GHS07	H319-335	0
93763-70-3			0
1317-65-3	GHS07	H315-319	0
7778-18-9			0
1309-48-4			0
1305-78-8	GHS05-GHS07	H315-318-335	0
1344-09-8	GHS05-GHS07	H290-314-335	0
14808-60-7	GHS08	H350-372	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. This product contains silica which is classified by IARC as a known human carcinogen (Group 1). Crystalline silica is known to cause silicosis.

### 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

### 5.2 Special hazards arising from the substance or mixture

No Information

### 5.3 Advice for firefighters

The product is not flammable.

## 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. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

**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)

Name	%	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	OEL Note
PORTLAND CEMENT	25-50	10 MG/M3	N/E	5 MG/M3	N/E	
MICA	10-25	3 MGM3	N/E	3 MGM3	N/E	
AMORPHOUS SILICATE	2.5-10	10 MGM3	NE	5 MGM3	NE	
LIMESTONE	2.5-10	N/E	N/E	5 MGM3	N/E	
GYPSUM / CALCIUM SULFATE DIHYDRATE	1.0-2.5	N/E	N/E	N/E	N/E	
CALCIUM OXIDE	1.0-2.5	2 MGM3	N/E	5 MGM3	N/E	
MAGNESIUM OXIDE	1.0-2.5	N/E	N/E	N/E	N/E	
SODIUM SILICATE	1.0-2.5	N/E	N/E	N/E	N/E	
MICROCRYSTALLINE SILICA	0.1-1.0	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3 (respirable)	N/E	

**FURTHER INFORMATION:** 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:** Ensure that eyewash stations and safety showers are close to the workstation location.

**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

<b>Boiling point/range (°C)</b>	N/A - N/A
<b>Flash Point, (°C)</b>	999
<b>Evaporation rate</b>	N/A
<b>Flammability (solid, gas)</b>	Not determined
<b>Upper/lower flammability or explosive limits</b>	N/A - N/A
<b>Vapour Pressure, mmHg</b>	N/A
<b>Vapour density</b>	N/A
<b>Relative density</b>	Not determined
<b>Solubility in / Miscibility with water</b>	N/D
<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Auto-ignition temperature (°C)</b>	Not determined
<b>Decomposition temperature (°C)</b>	Not determined
<b>Viscosity</b>	Unknown
<b>Explosive properties</b>	Not determined
<b>Oxidising properties</b>	Not determined

**9.2 Other information**

<b>VOC Content g/l:</b>	0
<b>Specific Gravity (g/cm<sup>3</sup>)</b>	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: Unknown

Corrosivity: Unknown

Sensitization: Unknown

Repeated dose toxicity: Unknown

Carcinogenicity: Unknown

Mutagenicity: Unknown

Toxicity for reproduction: 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>
65997-15-1	PORTLAND CEMENT	Not Available		Not Available
12001-26-2	MICA	Not Available		Not Available
93763-70-3	AMORPHOUS SILICATE	Not Available		Not Available
1317-65-3	LIMESTONE	6450 mg/kg, oral, rat	Not Available	Not Available
7778-18-9	GYPSUM / CALCIUM SULFATE DIHYDRATE	Not Available		Not Available
1309-48-4	MAGNESIUM OXIDE	Not Available		Not Available
1305-78-8	CALCIUM OXIDE	Not Available		Not Available
1344-09-8	SODIUM SILICATE	Not Available		Not Available
14808-60-7	MICROCRYSTALLINE SILICA	22500 mg/kg	Not Available	Not Available

**Additional Information:**

Irritating to respiratory system. This product contains silica which is classified by IARC as a known human carcinogen (Group 1). Crystalline silica is known to cause silicosis.

## 12. Ecological Information

### 12.1 Toxicity:

EC50 48hr (Daphnia): Unknown

IC50 72hr (Algae): Unknown

LC50 96hr (fish): Unknown

<b>12.2 Persistence and degradability:</b>	Unknown
<b>12.3 Bioaccumulative potential:</b>	Unknown
<b>12.4 Mobility in soil:</b>	Unknown
<b>12.5 Results of PBT and vPvB assessment:</b>	The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.
<b>12.6 Other adverse effects:</b>	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
93763-70-3	AMORPHOUS SILICATE	No information	No information	No information
1317-65-3	LIMESTONE	No information	No information	No information
7778-18-9	GYPHUM / CALCIUM SULFATE DIHYDRATE	No information	No information	No information
1305-78-8	CALCIUM OXIDE	No information	No information	No information
1309-48-4	MAGNESIUM 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

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

None Known

**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:

<u>Chemical Name</u>	<u>CAS-No.</u>
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No Sara 313 components exist in this product.

**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:

<u>Chemical Name</u>	<u>CAS-No.</u>
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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

**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

**California Proposition 65:**

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
MICROCRYSTALLINE SILICA	14808-60-7

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

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

No Information

**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.