

SAFETY DATA SHEET



PABCO® SG 30®; PABCO PREMIER®; PABCO PREMIER® PROFESSIONAL; PABCO PREMIER® ELITE; PREMIER RADIANCE®; PREMIER RADIANCE® ELITE; PREMIER ADVANTAGE®; CASCADE™; PARAMOUNT®; PARAMOUNT ADVANTAGE®; TAHOMA™; SHADOW CAP; PARAMOUNT® STARTER; UNIVERSAL STARTER

Section 1. Identification

- GHS product identifier** : PABCO® SG 30®, PABCO PREMIER®, PABCO PREMIER® PROFESSIONAL; PABCO PREMIER® ELITE; PREMIER RADIANCE®, PREMIER RADIANCE® ELITE; PREMIER ADVANTAGE®, CASCADE™; PARAMOUNT®, PARAMOUNT ADVANTAGE®, TAHOMA™; SHADOW CAP; PARAMOUNT® STARTER; UNIVERSAL STARTER
- Other means of identification** : Not available.
- Product type** : Solid.
- Identified uses**
Fiberglass based asphalt shingles.
- Supplier's details** : PABCO® ROOFING PRODUCTS
1476 Thorne Road
Tacoma, WA 98421
Phone: 253-272-0374
Fax: 253-572-4997
Toll free: (800) 426-9762
Web Site: www.pabcoroofing.com
- Emergency telephone number (with hours of operation)** : Andy Williams, Plant Manager
Emergency phone : 253-284-1215
Hours of operations : 7:00 a.m. – 4:00 p.m.

Section 2. Hazards identification

- OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Asphalt roofing shingles is considered ARTICLE and do not require a Safety Data Sheet(SDS). All components listed in section 3 are bound within the shingles. When handled as intended under normal condition of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. PABCO Roofing Products discloses as much health and safety information as possible to make sure that these products are used and handled properly.

- Classification of the substance or mixture** : Not classified.
- GHS label elements**
- Signal word** : No signal word.
- Hazard statements** : No known significant effects or critical hazards.
- Precautionary statements**
- Prevention** : Not applicable.

Section 2. Hazards identification

Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: Not available.

Ingredient name	%	CAS number
Crystalline silica, quartz	10 - 30	14808-60-7
Chromium (III) oxide	0.1 - 1	1308-38-9
Limestone	40	1317-65-3
Glass, oxide, chemicals	1 - 2	65997-17-3
Petroleum asphalt	15 - 25	8052-42-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Not applicable under normal conditions of use. In case of contact with eyes, rinse immediately with plenty of water. If irritation occurs, get medical attention.
Inhalation	: Not applicable under normal conditions of use. If inhaled, remove to fresh air. Get medical attention if you feel unwell.
Skin contact	: Not applicable under normal conditions of use. Rinse skin with water. If irritation occurs, get medical attention.
Ingestion	: Not applicable under normal conditions of use. Get medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: No known significant effects or critical hazards.
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Section 4. First aid measures

- Inhalation** : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Not applicable.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective actions for fire-fighters : No special measures are required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Provide adequate ventilation.
For emergency responders : Not applicable.

Environmental precautions : Not applicable.

Methods and materials for containment and cleaning up

- Spill** : Not applicable.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Advice on general occupational hygiene : Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see Section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

All components listed are bound within the shingles. When handled as intended under normal condition of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk.

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Crystalline silica, quartz	OSHA PEL Z3 (United States, 2/2013). TWA: 10 mg/m ³ 8 hours. Form: Respirable TWA: 250 mppcf 8 hours. Form: Respirable NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m ³ 10 hours. Form: Respirable dust ACGIH TLV (United States, 4/2014). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
Chromium (III) oxide	ACGIH TLV (United States, 6/2013). TWA: 0.5 mg/m ³ , (measured as Cr) 8 hours. Form: Inorganic NIOSH REL (United States, 4/2013). TWA: 0.5 mg/m ³ , (as Cr) 8 hours. OSHA PEL (United States, 2/2013). TWA: 0.5 mg/m ³ , (as Cr) 8 hours.

Appropriate engineering controls : No special ventilation requirements.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Follow good industrial hygiene practice.

Eye/face protection : No special measures are required.

Skin protection

Hand protection : Not required under normal conditions of use.

Body protection : Not required under normal conditions of use.

Other skin protection : Not required under normal conditions of use.

Respiratory protection : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state	: Solid. [Mineral surfaced, asphalt coated fiberglass mat.]
Color	: Not available.
Odor	: Slight asphalt odor.
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 2.2
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Volatility	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. Non-reactive or compatible with the following materials: reducing materials, combustible materials, organic materials, metals and moisture.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

All components listed are bound within the shingles. When handled as intended under normal condition of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk.

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Crystalline silica, quartz	-	1	Known to be a human carcinogen.	A2	-	+
Bitumens, Oxidized	-	3	-	A4	-	-
Glass, oxide, chemicals	-	3	-	A4	-	-
Chromium (III) oxide	-	3	-	A4	-	-

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Crystalline silica, quartz	Category 1	Inhalation	kidneys, respiratory tract and testes
Chromium (III) oxide	Category 1	Not determined	bone marrow, kidneys and respiratory tract

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Dispose material in accordance with all local, state, and federal regulations.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are laying down flat and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Chromium (III) oxide

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed



Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Crystalline silica, quartz Chromium (III) oxide	10 - 30 0.1 - 1	No. No.	No. No.	No. No.	No. Yes.	Yes. Yes.

SARA 313

No products were found.

State regulations

- Massachusetts** : The following components are listed: Crystalline silica, quartz; Silicon; Limestone; Glass, oxide, chemicals
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: Crystalline silica, quartz; Silicon; Chromium (III) oxide; Limestone; Bitumens, Oxidized
- Pennsylvania** : The following components are listed: Crystalline silica, quartz; Silicon; Chromium (III) oxide; Limestone

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Crystalline silica, quartz	Yes.	No.	No.	No.

Section 16. Other information

History

- Date of issue mm/dd/yyyy** : 10/15/2015
- Version** : 1
- Prepared by** : KMK Regulatory Services Inc.

Section 16. Other information

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.