

GHS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
Not regulated		Not regulated

**SECTION I: IDENTIFICATION**

**Use:** Used as a substrate material in flat or low-slope roofing as well as protection board in civil engineering projects. It can be installed over wood, rigid insulation, as a recover sheet over an existing roof surface which is to be re-roofed or under paving asphalt in bridge deck applications.

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**SECTION II: HAZARD(S) IDENTIFICATION**

**EMERGENCY OVERVIEW**

Semi-rigid protection board composed of a mineral fortified asphaltic core formed between two saturated fibreglass felts. Presents an asphalt odour. Under normal use, this product is not expected to create any health or environmental hazard. Inhalation of dust or of asphalt fumes can cause a respiratory irritation.

**SECTION III: COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS**

NAME	CAS #	% WEIGHT	EXPOSURE LIMIT (ACGIH)	
			TLV-TWA	TLV-STEL
Oxidized Asphalt	64742-93-4	60-65	0.5 mg/m <sup>3</sup>	Not established
Fibreglass	65997-17-3	7-13	1 f/cc for fibres longer than 5 µm with a diameter less than 3 µm	Not established

*Effects of Short-Term (Acute) Exposure*

**INHALATION**

No possible health effect if the product is not heated.

**Oxidized Asphalt:** Inhalation is possible only if the product is heated or if asphalt fumes are generated. Asphalt fumes can be irritating for the nose, the throat and the upper respiratory tract causing cough, wheezing breath and/or shortness of breath. The acute effects of the exposure to the asphalt fumes include headache, tiredness and decreased appetite. Hydrogen sulphide (H<sub>2</sub>S) can result from excessive heating, agitation or contact with acids or acid salts. Inhaled H<sub>2</sub>S can cause a central nervous system depression having for result headache, dizziness, nausea, unconsciousness, and death. (1)

**Fibreglass:** Fibreglass dust may cause mouth, nose and throat irritation. (1)

**SKIN CONTACT**

Frequent or prolonged contacts may cause skin irritation.

**Oxidized Asphalt:** No likely health effect if the product is not heated. Exposure to asphalt fumes may cause a severe irritation to skin and may cause dermatitis and lesions similar to acne. The contact with the hot product can cause serious burns. (1)

**Fibreglass:** Fibreglass dust may cause skin irritation. (1)

**EYE CONTACT**

**Oxidized Asphalt:** No likely health effect if the product is not heated. The fumes may cause irritation and redness. The contact with the hot product can cause serious burns. (1)

**Fibreglass:** Particles or dust of the product may cause irritations. (1)

**INGESTION**

It is unlikely that toxic quantities of the product are ingested under normal use and handling of the product.

*Effects of Long-Term (Chronic) Exposure*

**SKIN CONTACT**

**Oxidized Asphalt:** No likely health effect if the product is not heated. Exposure to asphalt fumes may cause a severe irritation to the skin and may cause dermatitis and lesions similar to acne. Long-term contact may cause a change with skin pigmentation which can be worsened by the exposure to the sun. (1)

**INHALATION**

**Oxidized Asphalt:** No likely health effect if the product is not heated. Prolonged exposure to asphalt fumes may cause irritation to respiratory tract. Inhalation of asphalt fumes may cause central nervous system depression having for result headache, dizziness, nausea, unconsciousness, and death. (1)

**Fibreglass:** No chronic effect on health is known to be associated with exposure to fibreglass of continuous filament. (1)

**NERVOUS SYSTEM EFFECTS**

No information available.

**CARCINOGENICITY**

**Oxidized Asphalt:** In its 2013 monograph (Volume 103), the International Agency for Research on Cancer (IARC) conducted a review of the potential carcinogenicity of bitumen (the European term for asphalt). One of its conclusions was "occupational exposures to oxidized bitumens and their emissions during roofing" are classified in IARC Group 2A, "probably carcinogenic to humans.". However, due to the product form, exposure to such component is unlikely under normal conditions of use. (1)

**Fibreglass:** The epidemiological results of studies have not shown any increase in respiratory disease or cancer. IARC classified fibreglass in continuous filament "Not classifiable as carcinogen to humans" (Group 3). (1)

## TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY

*Oxidized Asphalt, Fibreglass:* No information available.

## REPRODUCTIVE TOXICITY

*Oxidized Asphalt, Fibreglass:* No information available.

## MUTAGENICITY

*Oxidized Asphalt, Fibreglass:* No information available.

## TOXICOLOGICALLY SYNERGISTIC MATERIALS

*Oxidized Asphalt, Fibreglass:* No information available.

## POTENTIAL FOR ACCUMULATION

*Oxidized Asphalt, Fibreglass:* No information available.

## SECTION IV: FIRST AID MEASURES

### SKIN CONTACT

Wash gently with warm water and soap to remove dust. In case of contact with hot product, treat as an ordinary burn. Do not attempt to remove material from affected area without medical assistance. Flush skin immediately with large volumes of cold water. Obtain immediate medical attention.

### EYE CONTACT

Flush eyes with water for at least 15 minutes while holding eyelids open. Do not attempt to remove material from affected area without medical assistance. Obtain medical attention.

### INHALATION

Remove victim from further exposure and restore breathing, if required. Obtain medical attention.

### INGESTION

Rinse mouth with water to remove dust, and drink plenty of water to help reduce irritation.

## SECTION V: FIRE-FIGHTING MEASURES

**FLAMMABILITY:** Asphalt fumes are flammable.  
**EXPLOSION DATA:** Not established  
**FLASH POINT:** Not applicable  
**AUTO-IGNITION TEMPERATURE:** Not available  
**FLAMMABILITY LIMITS IN AIR:** (% in volume) Not available

### FIRE HAZARDS

Asphalt fumes are flammable. Never work in a closed area to avoid accumulation of gas. Do not use water. Always stay away from containers exposed to excessive heat.

### COMBUSTION PRODUCTS

Carbon monoxide, carbon dioxide and incomplete combustion products. Burning of this material will produce thick black smoke. Irritating and/or toxic fumes and gases including Hydrogen Sulphide and Sulphur Dioxide may be generated by thermal decomposition or combustion.

### FIRE FIGHTING INSTRUCTIONS

Evacuate area. Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standards. Approach fire from upwind and fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Always stay away from containers because of the risk of explosion. Stop leak before attempting to put out the fire. If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out. Move containers from fire area if this can be done without risk. Cool containers with flooding quantities of water until well after fire is out.

### EXTINGUISHING MEDIA

Foam, carbon dioxide, sand, dry chemical.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

### RELEASE OR SPILL

Eliminate all sources of ignition. If hot material is spilled, allow enough time to cool completely and remove to a container for disposal. Wear appropriate breathing apparatus (if applicable) and protective clothing. Notify appropriate environmental agency(ies). Wash spill area with soap and water. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION VII: HANDLING AND STORAGE

### HANDLING

Avoid prolonged exposure to mist, fumes or vapours from hot material. Minimise skin and eye contact. Use under adequate ventilation measures. Wash body parts after handling.

### STORAGE

Store material away from all sources of heat and ignition in a fresh, well ventilated area. Keep away from children. Avoid the accumulation of dust.

## SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

**HANDS:** Wear resistant gloves.

**RESPIRATORY:** If the TLV to dust is exceeded, if use is performed in a poorly ventilated confined area, use an approved respirator in accordance with standards.

**EYES:** Wear chemical safety goggles in accordance with standards.

**OTHERS:** Eye bath and safety shower.

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid  
**ODOUR AND APPEARANCE:** Semi-flexible asphaltic core with asphalt odour  
**ODOUR THRESHOLD:** Not applicable  
**VAPOUR DENSITY (air = 1):** Not applicable  
**EVAPORATION RATE (Butyl acetate = 1):** Not applicable  
**BOILING POINT (760 mm Hg):** Not determined  
**FREEZING POINT:** Not applicable  
**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** Variable  
**SOLUBILITY IN WATER (20°C):** Nil  
**VOLATILE ORGANIC COMPOUND CONTENT (V.O.C.):** Not available  
**VISCOSITY:** Not applicable

## SECTION X: STABILITY AND REACTIVITY

**STABILITY:** This material is stable.

**CONDITIONS OF REACTIVITY:** Avoid excessive heat.

**INCOMPATIBILITY:** Avoid accidental contact of hot product with water, which may cause violent eruptions. Avoid strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None identified.

**HAZARDOUS POLYMERISATION:** None

## SECTION XI: TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL DATA

Not available.

### *Effects of Short-Term (Acute) Exposure*

#### INHALATION

No information available.

#### EYE IRRITATION

No information available.

#### SKIN IRRITATION

No information available.

### Effects of Long-Term (Chronic) Exposure

#### TARGET ORGANS

No information available.

#### CARCINOGENICITY

No information available.

#### REPRODUCTIVE EFFECTS

No information available.

#### TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY

No information available.

#### MUTAGENICITY

No information available.

### SECTION XII: ECOLOGICAL INFORMATION

#### ENVIRONMENTAL EFFECTS

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial and federal regulations may require that environmental and / or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

### SECTION XIII: DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL

This product is not hazardous waste. Consult local, state, provincial, or territories authorities to know disposal methods. This material is not listed by the EPA as hazardous waste.

### SECTION XIV: TRANSPORT INFORMATION

This product is not regulated by DOT and TDG.

### SECTION XV: REGULATORY INFORMATION

**DSL:** All constituents of this product are included on the Domestic Substances List (DSL – Canada).

**TSCA:** All constituents of this product are included on the Toxic Substances Control Act Inventory (TSCA – United States).

**Prop. 65:** This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

### SECTION XVI: OTHER INFORMATION

#### GLOSSARY

<b>ACGIH:</b>	American Conference of Governmental Industrial Hygienists (United States)
<b>ANSI:</b>	American National Standards Institute (United States)
<b>ASTM:</b>	American Society for Testing and Materials (United States)
<b>CAS:</b>	Chemical Abstract Services
<b>CFR :</b>	Code of Federal Regulations (United States)
<b>CSA:</b>	Canadian Standardization Association
<b>DOT:</b>	Department of Transportation (United States)
<b>DSL:</b>	Domestic Substances List (Canada)
<b>EPA:</b>	Environmental Protection Agency (United States)
<b>GHS</b>	Globally Harmonized System
<b>IARC:</b>	International Agency for Research on Cancer
<b>LD<sub>50</sub>/LC<sub>50</sub>:</b>	Less high lethal dose and lethal concentration published
<b>NFPA:</b>	National Fire Protection Association (United States)
<b>NIOSH:</b>	National Institute for Occupational Safety and Health (United States)
<b>NTP:</b>	National Toxicology Program (United States)
<b>OSHA:</b>	Occupational Safety & Health Administration (United States)
<b>RCRA:</b>	Resource Conservation and Recovery Act (United States)
<b>TDG:</b>	Transportation of Dangerous Goods (Canada)
<b>TLV-TWA:</b>	Threshold Limit Value – Time-Weighted Average
<b>TSCA:</b>	Toxic Substances Control Act (United States)

#### Reference:

(1) Safety Data Sheet of supplier.

**Code of SDS:** CA U DRU SS FS 056  
**For more information:** 1 800 567-1492

The Safety Data Sheets of SOPREMA Canada are available on Internet at the following site: [www.soprema.ca](http://www.soprema.ca)

#### Justification of the update:

- GHS format.

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