

GHS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
Not regulated		Not regulated

SECTION I: IDENTIFICATION

Use: Wall insulating polyisocyanurate panel.

Distributors:

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In case of emergency:

SOPREMA (8:00am to 5:00pm): 1 800 567-1492

CANUTEC (Canada) (24h.): 613 996-6666

CHEMTREC (USA) (24h.): 1 800 424-9300

SECTION II: HAZARD(S) IDENTIFICATION

DANGER

Polyisocyanurate foam panel. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding, or machining that result in the generation of airborne particulates (dusts) and the release of n-Pentane vapours. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Inhalation of high amounts of dust over long periods may overload lung clearance mechanisms and make lungs more vulnerable to respiratory diseases.

SECTION III: COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

NAME	CAS #	% WEIGHT	EXPOSURE LIMIT (ACGIH)	
			TLV-TWA	TLV-STEL
Polyisocyanurate Foam ¹	None	80-100	10 mg/m ³ (breathable dust)	Not established
Fibreglass ^{1,2}	65997-17-3	7-13	1 f/cc for fibres longer than 5 µm with a diameter less than 3 µm	Not established
n-Pentane ¹	109-66-0	1-5	1000 ppm	Not established
Aluminum ^{1,3}	7429-90-5	1-5	1 mg/m ³	Not established

- The exposure to the product above the limits of exposure is not likely to occur considering its form (incorporated in the mixture) and the provided use. The limit of exposure is given for reference only.
- Only on Sopra ISO V Plus
- Only on Sopra ISO V Alu

Effects of Short-Term (Acute) Exposure

INHALATION

Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing.

Polyisocyanurate Foam: Dust may cause transient mechanical irritation of the upper respiratory tract. (2)

Fibreglass: Airborne fragments of glass fibres may cause mechanical irritation of the upper respiratory tract, particularly mouth, nose and throat; glass dust may cause transient irritation of the upper respiratory tract. (2)

n-Pentane: n-Pentane readily forms very high vapour concentrations at room temperature. It is extremely flammable and is not expected to produce significant harmful effects below the lower explosive limit (15000 ppm (1.5%)). Based on animal information, high concentrations of n-pentane may cause temporary irritation of nose and throat and depression of the central nervous system (CNS) with symptoms such as headache, nausea, dizziness, drowsiness, and confusion. (1)

SKIN CONTACT

Frequent or prolonged contacts may cause skin irritation.

Polyisocyanurate Foam: Transient mechanical irritation. (2)

Fibreglass: Direct contact with rough-cut foam or felt facers can cause mechanical abrasion cuts or puncture to fingers, hands or exposed skin. (2)

n-Pentane: Slight irritation. (1)

EYE CONTACT

The dust may cause eye irritation.

Polyisocyanurate Foam, Fibreglass: Mechanical irritation, redness, tearing, and blurred vision can occur if dusts generated from these products come into contact with eyes. (2)

n-Pentane: Mild irritation. (1)

INGESTION

It is unlikely that toxic amounts of this product would be ingested with normal handling and use. (1)

Effects of Long-Term (Chronic) Exposure

SKIN CONTACT

Polyisocyanurate Foam, Fibreglass: None known.

n-Pentane: Dryness, redness and itching. (1)

SKIN CONTACT

Polyisocyanurate Foam, Fibreglass: None known.

n-Pentane: Not expected to be an occupational sensitizer. (1)

EYE CONTACT

Polyisocyanurate Foam, n-Pentane: None known.

Fibreglass: None known.

INHALATION

Polyisocyanurate Foam: There is no evidence that dusts generated from this product cause disease in humans. (2)

Fibreglass: No chronic health effects are known to be associated with exposure to continuous filament fibreglass. (2).

n-Pentane: None known.

NERVOUS SYSTEM EFFECTS

Polyisocyanurate Foam, Fibreglass: None known.

n-Pentane: None known. (1)

CARCINOGENICITY

Polyisocyanurate Foam: No information available.

Fibreglass: Results from epidemiological studies have not shown any increase in respiratory disease or cancer. The International Agency for Research on Cancer (IARC) has classified continuous filament fibreglass “Not Classifiable as to Carcinogenicity to Humans” (Group 3), (2)

n-Pentane: The IARC has not evaluated the carcinogenicity of this chemical. The American Conference of Governmental Industrial Hygienists (ACGIH) has not assigned a carcinogenicity designation to this chemical. The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens. (1)

TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY

Polyisocyanurate Foam, Fibreglass: No information available.

n-Pentane: There is no human information available. The information available from animal studies does not suggest that n-pentane causes developmental toxicity. (1)

REPRODUCTIVE TOXICITY

Polyisocyanurate Foam, Fibreglass: No information available.

n-Pentane: There is no human information available. The information available from animal studies does not suggest that n-pentane causes reproductive toxicity. (1)

MUTAGENICITY

Polyisocyanurate Foam, Fibreglass: No information available.

n-Pentane: There is no human information available. The information available from animal studies does not suggest that n-pentane causes mutations. (1)

SECTION IV: FIRST-AID MEASURES

SKIN CONTACT

In case of irritation, wash skin with water and soap.

EYE CONTACT

Flush eyes with water for at least 15 minutes while holding eyelids open. Obtain medical attention if irritation persists.

INHALATION

Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust. Obtain medical attention if feeling of sickness persists.

INGESTION

Product is not intended to be ingested or eaten. If product is ingested, irritation of the gastrointestinal tract may occur, and should be treated symptomatically. Do not induce vomiting. Rinse mouth with water to remove particles, and drink plenty of water to help reduce the irritation. [No chronic effects are expected following ingestion.]

SECTION V: FIRE-FIGHTING MEASURES

FLAMMABILITY: The product is a solid article that will burn if exposed to an ignition source of sufficient heat and intensity or an open flame.

EXPLOSION DATA: Not applicable

FLASH POINT: Not applicable

AUTO-IGNITION TEMPERATURE: Not available

FLAMMABILITY LIMITS IN AIR: (% in volume) Not applicable

FIRE HAZARDS

This product is a solid article that will burn if exposed to an ignition source of sufficient heat and intensity, or open flame, such as a welder's torch. It should be installed with a 15-minute thermal barrier between it and the structure's interior.

COMBUSTION PRODUCTS

Under certain fire conditions, combustible gases can be generated creating rapidly spreading, high intensity flames and dense, black smoke. Burning of this product can produce irritating and potentially toxic fumes and gases, including carbon monoxide and carbon dioxide; other undetermined hydrocarbon fractions could be released in small quantities.

EXTINGUISHING MEDIA

Carbon dioxide, dry chemical, water spray.

SPECIAL PROCEDURES

Wear self-contained breathing apparatus and appropriate protective clothing in according with standards.

SECTION VI: ACCIDENTAL RELEASE MEASURES

RELEASE OR SPILL: Do not discard residues into sewers, storm sewers, or surface waters. If accidentally released to a water body, material will float and disperse with wind and current; contain the material with booms and remove either manually or with a vacuum truck. If accidentally released to land, scoop up material and put into suitable container for disposal. Chemicals in this material are not expected to cause harm to aquatic or terrestrial plants or animals; however, fish or other animals may eat the product, which could obstruct their digestive tracts. Some components of the product are not biodegradable.

SECTION VII: HANDLING AND STORAGE

HANDLING: Dust can be generated during cutting operations. Avoid dust exposures when cutting or abrading by using local or general ventilation system. Do not dry sweep dust accumulation or use compressed air for clean-up.

STORAGE: Store in a dry and well-ventilated area. Assure storage containers or areas and shipping containers are adequately ventilated. No Smoking – No Matches – No Lighters – No Welding rules should be enforced. Install according to manufacturer's recommendations.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

HANDS: Wear gloves.

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

EYES: Goggles or safety goggles with side shields are recommended.

FEET: Work shoes in accordance with standards.

BODY: If excessive dust is generated during cutting operations, wear long-sleeved, loose-fitting clothing, long pants and gloves, to reduce irritation.

OTHERS: Eye bath and safety shower.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Solid

ODOUR AND APPEARANCE: White or cream coloured solid with printed non-reflective tri-laminate foil facer on topside and simple reflective solid or tri-laminate foil on backside.

ODOUR THRESHOLD:

Not applicable

VAPOUR DENSITY (air = 1):

Not applicable

EVAPORATION RATE (Butyl acetate = 1):

Not applicable

BOILING POINT (760 mm Hg):

> 121°C (250°F)

FREEZING POINT:

Not applicable

SPECIFIC GRAVITY (H₂O = 1):

< 1

SOLUBILITY IN WATER (20°C):

Not soluble

VOLATILE PERCENTAGE:

< 1

VISCOSITY:

Not applicable

Not applicable

SECTION X: STABILITY AND REACTIVITY

STABILITY: This material is stable. Avoid sources of ignition.

CONDITIONS OF REACTIVITY: Stable. Service temperature range: -73°C (-100°F) to 121°C (250°F).

INCOMPATIBILITY: Acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide and dimethyl formamide.

HAZARDOUS DECOMPOSITION PRODUCTS: None identified. If burned, will produce primarily, CO, CO₂, Some HCN possible under certain conditions.

HAZARDOUS POLYMERISATION: None

SECTION XI: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA

Polyisocyanurate Foam and Fibreglass: Not available.

n-Pentane: (1)

LC₅₀ (inhalation, rat): >6 106 ppm (4-hour exposure)

LD₅₀ (oral, rat): > 2000 mg/kg

LD₅₀ (dermal, rabbit): Not available

Effects of Short-Term (Acute) Exposure

INHALATION

Polyisocyanurate Foam: No information available.

Fibreglass: Many studies have been conducted to determine the potential long-term effects of fibrous glass inhalation. Although inconclusive, some research supported by the industry indicates that manufacturing plant employees who were first employed more than 30 years ago in factories that manufactured glass wool and mineral wool have an increased rate of lung cancer as compared to certain other reference populations. Similar findings were not reported regarding employees in textile fibre manufacturing plants. Animal studies have not demonstrated an increased rate of lung cancer when the animals breathed large quantities of glass fibres. Artificial implantation or injection of fine glass fibres into the chest, abdominal cavity or trachea of laboratory animals has produced cancer. (2)

n-Pentane: Inhalation of extremely high concentrations of n-Pentane causes depression of the CNS and irritation of the nose and throat. (1)

EYE IRRITATION

Polyisocyanurate Foam and Fibreglass: No information available.

n-Pentane: Slight eye irritant. (1)

SKIN IRRITATION

Polyisocyanurate Foam, Fibreglass: No information available.

n-Pentane: Slight skin irritant. (1)

Effects of Long-Term (Chronic) Exposure

INHALATION

Polyisocyanurate Foam: One animal study has reported lung cancer following exposure to high levels of dust; subsequent animal studies have not shown this result. Emphysema has been produced in animals following exposure to high levels of dust. (2)

Fibreglass: No information available.

n-Pentane: No significant effect. (1)

TARGET ORGANS

Polyisocyanurate Foam, Fibreglass and n-Pentane: No information available.

CARCINOGENICITY

Polyisocyanurate Foam: No information available.

Fibreglass: IARC classified continuous filament fibre glass as a Group 3 substance, "not classifiable as to its carcinogenicity to humans". (2)

n-Pentane: No information available.

REPRODUCTIVE EFFECTS

Polyisocyanurate Foam, Fibreglass: No information available.

n-Pentane: The available information does not suggest that n-Pentane is a reproductive toxin. (1)

TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY

Polyisocyanurate Foam, Fibreglass: No information available.

n-Pentane: The available information does not suggest that n-Pentane is a developmental toxin. (1)

MUTAGENICITY

Polyisocyanurate Foam and Fibreglass: No information available.

n-Pentane: The available information does not suggest that n-Pentane is mutagenic. (1)

SECTION XII: ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS

Do not discard residues into sewers, storm sewers, or surface waters. If accidentally released to water body, the material will float and disperse with wind and current; contain the material with booms and remove either manually or with a vacuum truck. Chemicals in this material are not expected to cause harm to aquatic or terrestrial plants or animals; however, fish or other animals may eat this product, which could obstruct their digestive tracts. (Some components of the product are not biodegradable.)

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 an incident.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

This product is not a hazardous waste. Consult local, state, provincial or territory authorities to know disposal methods. This material is not listed by the EPA as a hazardous waste as to follow RCRA (USA) regulations.

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 contains chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION XVI: OTHER INFORMATION

GLOSSARY

ASTM: American Society for Testing and Materials (United States)

CAS: Chemical Abstract Services

CSA: Canadian Standardization Association

DOT: Department of Transportation (United States)

EPA: Environmental Protection Agency (United States)

GHS Globally Harmonized System

LD₅₀/LC₅₀: Less high lethal dose and lethal concentration published

NIOSH: National Institute for Occupational Safety and Health (United States)

RCRA: Resource Conservation and Recovery Act (United States)

TDG: Transportation of Dangerous Goods (Canada)

TLV-TWA: Threshold Limit Value – Time-Weighted Average

References:

- (1) CHEMINFO (2016) Canadian Centre of Occupational Health and Safety, Hamilton (Ontario) Canada.
- (2) Safety Data Sheet of the supplier.

Code of SDS: CA U DRU SS FS 220

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

Justification of the update:

- New product.

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.