

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Article

Product Name: FlintBoard® ISO CV; FlintBoard® H ISO NB

Intended Use of the Product

Roofing insulation

Name, Address, and Telephone of the Responsible Party

Company

Saint Gobain CertainTeed
20 Moores Road
Malvern, PA 19355
Professional: 800-233-8990
Consumer: 800-782-8777

www.certainteed.com

Emergency Telephone Number

Emergency Number :

ChemTel LLC

Domestic: 1-800-255-3924

International: +1-813-248-0585

Australia: 1-300-954-583

Brazil: 0-800-591-6042

China: 400-120-0751

India: 000-800-100-4086

Mexico: 800-099-0731

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification

No classification required according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

Label Elements

GHS Labeling

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

Other Hazards

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200] and the Canadian Hazardous Products Regulations (HPR): this product is considered a manufactured article and is not considered a hazard when used in a manner which is consistent with the labeled directions.

Unknown acute toxicity

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Synonyms	Product Identifier	%*	GHS Ingredient Classification
Substrate	Plywood / Nailboard / Wood / Fiberboard / OSB	(CAS-No.) Not applicable	50 – 87	Comb. Dust
Limestone	Chalk / Calcium carbonate / Calcite	(CAS-No.) 1317-65-3	< 40	Not classified
Polyisocyanurate foam	Polyurethane modified polyisocyanurate polymer	(CAS-No.) Not available	9 – 30	Not classified
Glass, oxide, chemicals	Sodium calcium polyphosphate silicate / Calcium aluminum borosilicate / Fiberglass	(CAS-No.) 65997-17-3	≤ 20	Not classified
n-Pentane	Pentane / Normal pentane / Pentane, n-	(CAS-No.) 109-66-0	< 10	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304

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				Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Carbon black	C.I. 77266 / C.I. Pigment Black 6 / C.I. Pigment Black 7 / Carbon blacks / Lampblack / Vegetable carbon / Microjet Black CW / Pigment Black 7 / Coal soot / Coal soots / Channel black / Bonjet Black CW / D and C Black No. 4 / Black carbon / Carbon Black / CARBON BLACK / D and C Black No. 2	(CAS-No.) 1333-86-4	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 2, H351 Comb. Dust
Styrene	Benzene, ethenyl- / Benzene, vinyl- / Cinnamene / Phenylethene	(CAS-No.) 100-42-5	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Quartz	Crystalline silica, quartz / Silicon dioxide	(CAS-No.) 14808-60-7	< 0.1	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Formaldehyde	Formalin / Formic aldehyde / Methanal / Methaldehyde	(CAS-No.) 50-00-0	< 0.1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Isopentane	Butane, 2-methyl- / 2-Methylbutane / Methylbutane	(CAS-No.) 78-78-4	< 0.1	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Cyclopentane	None	(CAS-No.) 287-92-3	< 0.1	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200] and the Canadian Hazardous Products Regulations (HPR): this product is considered a manufactured article and is not considered a hazard when used in a manner which is consistent with the labeled directions

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: The need for first aid is not anticipated under normal conditions of use.

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Inhalation: Not expected to be a primary route of exposure. For particulates, dust, or fumes from processing: Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Not expected to present a significant dermal hazard under anticipated conditions of normal use. For particulates, dust, or fumes from processing: Brush off loose particles from skin. Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists.

Eye Contact: Not expected to be a primary route of exposure. For particulates, dust, or fumes from processing: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

Ingestion: Not expected to be a primary route of exposure.

Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: For particulates and dust: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Skin Contact: Direct contact may cause irritation by mechanical abrasion. For particulates and dust: Exposure may produce an allergic reaction.

Eye Contact: Contact may cause irritation due to mechanical abrasion.

Ingestion: Not expected to present a significant hazard under anticipated conditions of normal use.

Chronic Symptoms: None expected under normal conditions of use. For particulates and dust: Exposure may produce an allergic reaction. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam.

Unsuitable Extinguishing Media: Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any fire.

Firefighting Instructions: Use firefighting measures appropriate for the surrounding fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Isocyanates.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Accidental release of the product does not present a hazard under normal conditions of use.

For Non-Emergency Personnel

Protective Equipment: Use of personal protective equipment (PPE) is not generally required but should be evaluated based on the extent and severity of accidental release.

Emergency Procedures: Evacuate the area if accidental release presents a significant hazard.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection as conditions warrant.

Emergency Procedures: Upon arrival at the scene a first responder is expected to protect oneself and the public, secure the area, and call for the assistance of trained personnel as conditions permit.

Environmental Precautions

The product does not pose a significant hazard to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain the product and collect as any solid.

Methods for Cleaning Up: Clean up accidental release immediately and dispose of waste safely.

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Reference to Other Sections

See Section 8 for advice on personal protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Further processing of the product requires an evaluation of potential hazards based upon intended use.

Precautions for Safe Handling: There are no specific precautions necessary for safe handling of the product. The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: No technical measures are necessary for storage of the product.

Storage Conditions: Store in a dry, cool place.

Incompatible Materials: Chlorine. Acetone. Chloroform. Dimethyl sulfoxide. Dimethylformamide. Ethylene dichloride. Hydrogen peroxide. MEK. Tetrahydrofuran.

Specific End Use(s)

Roofing insulation

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

n-Pentane (109-66-0)		
USA ACGIH	ACGIH OEL TWA	1000 ppm (Pentane, all isomers)
USA OSHA	OSHA PEL TWA	2950 mg/m ³
USA OSHA	OSHA PEL TWA	1000 ppm
USA NIOSH	NIOSH REL TWA	350 mg/m ³
USA NIOSH	NIOSH REL TWA	120 ppm
USA NIOSH	NIOSH REL (Ceiling)	1800 mg/m ³
USA NIOSH	NIOSH REL C	610 ppm
USA IDLH	IDLH	1500 ppm (10% LEL)
Glass, oxide, chemicals (65997-17-3)		
USA OSHA	OSHA PEL TWA	15 mg/m ³ total dust, 5 mg/m ³ , respirable fraction 8 hr
USA NIOSH	NIOSH REL TWA	3 fibers/cm ³ (fibers ≤3.5 µm in diameter & ≥10µm in length), TWA 5mg/m ³ (total)
Carbon black (1333-86-4)		
USA ACGIH	ACGIH OEL TWA	3 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL TWA	3.5 mg/m ³
USA NIOSH	NIOSH REL TWA	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA IDLH	IDLH	1750 mg/m ³
Quartz (14808-60-7)		
USA ACGIH	ACGIH OEL TWA	0.025 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL TWA	50 µg/m ³ (Respirable crystalline silica)
USA OSHA	OSHA PEL TWA	(250)/(%SiO ₂ +5) mppcf TWA (respirable fraction) (10)/(%SiO ₂ +2) mg/m ³ TWA (respirable fraction) (For any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or otherwise not in effect, See 20 CFR 1910.1000 TABLE Z-3)

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USA NIOSH	NIOSH REL TWA	0.05 mg/m ³ (respirable dust)
USA IDLH	IDLH	50 mg/m ³ (respirable dust)
Formaldehyde (50-00-0)		
USA ACGIH	ACGIH OEL TWA	0.1 ppm
USA ACGIH	ACGIH OEL STEL	0.3 ppm
USA ACGIH	ACGIH chemical category	Confirmed Human Carcinogen, dermal sensitizer
USA OSHA	OSHA PEL TWA	0.75 ppm
USA OSHA	OSHA PEL STEL	2 ppm (see 29 CFR 1910.1048)
USA OSHA	OSHA Action Level/Excursion Limit	0.5 ppm (Action level, see 29 CFR 1910.1028)
USA NIOSH	NIOSH REL TWA	0.016 ppm
USA NIOSH	NIOSH REL C	0.1 ppm
USA IDLH	IDLH	20 ppm
Styrene (100-42-5)		
USA ACGIH	ACGIH OEL TWA	10 ppm
USA ACGIH	ACGIH OEL STEL	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA ACGIH	BEI (BLV)	400 mg/g Kreatinin Parameter: Mandelic acid plus phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific) 40 µg/l Parameter: Styrene - Medium: urine - Sampling time: end of shift
USA OSHA	OSHA PEL TWA	100 ppm
USA OSHA	OSHA PEL C	200 ppm
USA OSHA	Acceptable Maximum Peak Above The Acceptable Ceiling Concentration For An 8-Hr Shift	600 ppm Peak (5 minutes in any 3 hours)
USA NIOSH	NIOSH REL TWA	215 mg/m ³
USA NIOSH	NIOSH REL TWA	50 ppm
USA NIOSH	NIOSH REL STEL	425 mg/m ³
USA NIOSH	NIOSH REL STEL	100 ppm
USA IDLH	IDLH	700 ppm
Isopentane (78-78-4)		
USA ACGIH	ACGIH OEL TWA	1000 ppm (Pentane, all isomers)
Cyclopentane (287-92-3)		
USA ACGIH	ACGIH OEL TWA	600 ppm
USA NIOSH	NIOSH REL TWA	1720 mg/m ³
USA NIOSH	NIOSH REL TWA	600 ppm
Wood dust		
USA ACGIH	ACGIH OEL TWA	1 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Limestone (1317-65-3)		
USA OSHA	OSHA PEL TWA	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL TWA	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)

Exposure Controls

Appropriate Engineering Controls: Engineering controls are not required for normal use of this product.

Personal Protective Equipment: Personal protective equipment is not generally required but should be evaluated based on conditions of use.

Materials for Protective Clothing: Not available

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Hand Protection: Wear protective gloves to protect from abrasion.

Eye Protection: In case of excessive dust production, safety goggles are recommended.

Skin and Body Protection: Not generally required, if conditions warrant: Wear suitable protective clothing.

Respiratory Protection: The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust above exposure limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Foam with glass and substrate facers
Odor	: Slight or odorless
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Water: Insoluble
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid dust formation. Extremely high or low temperatures. Incompatible materials. Moisture.

Incompatible Materials: Chlorine. Acetone. Chloroform. Dimethyl sulfoxide. Dimethylformamide. Ethylene dichloride. Hydrogen peroxide. MEK. Tetrahydrofuran.

Hazardous Decomposition Products: Under conditions of fire this material may produce: Carbon oxides (CO, CO₂). Isocyanates.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

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Symptoms/Effects After Inhalation: For particulates and dust: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Symptoms/Effects After Skin Contact: Direct contact may cause irritation by mechanical abrasion. For particulates and dust: Exposure may produce an allergic reaction.

Symptoms/Effects After Eye Contact: Contact may cause irritation due to mechanical abrasion.

Symptoms/Effects After Ingestion: Not expected to present a significant hazard under anticipated conditions of normal use.

Chronic Symptoms: None expected under normal conditions of use. For particulates and dust: Exposure may produce an allergic reaction. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

n-Pentane (109-66-0)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	3000 mg/kg
LC50 Inhalation Rat	364 g/m ³ (Exposure time: 4 h)
LC50 Inhalation Rat	> 20 mg/l/4h
Carbon black (1333-86-4)	
LD50 Oral Rat	> 8000 mg/kg
LC50 Inhalation Rat	> 4.6 mg/m ³ (Exposure time: 4 h)
ATE US/CA (dust, mist)	1.50 mg/l/4h
Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Formaldehyde (50-00-0)	
LD50 Oral Rat	100 mg/kg
LD50 Dermal Rat	270 mg/kg
ATE US/CA (gas)	700 ppmV/4h
Styrene (100-42-5)	
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	11.7 mg/l/4h
Cyclopentane (287-92-3)	
LD50 Oral Rat	11400 mg/kg
Glass, oxide, chemicals (65997-17-3)	
IARC Group	3
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
Carbon black (1333-86-4)	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Formaldehyde (50-00-0)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.
Styrene (100-42-5)	
IARC Group	2A
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

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Wood dusts (all other wood dusts) (Not applicable)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Not classified.

n-Pentane (109-66-0)	
LC50 Fish 1	9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Crustacea	9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	11.59 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
NOEC Chronic Algae	2 mg/l
Carbon black (1333-86-4)	
EC50 Crustacea	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
Formaldehyde (50-00-0)	
LC50 Fish 1	22.6 – 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Crustacea 1	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Crustacea 2	11.3 – 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	1 mg/l
Styrene (100-42-5)	
LC50 Fish 1	3.24 – 4.99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Crustacea	3.3 – 7.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	19.03 – 33.53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
ErC50 Algae	0.72 mg/l
NOEC (Acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC Chronic Algae	0.063 mg/l
Isopentane (78-78-4)	
EC50 Crustacea	2.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Cyclopentane (287-92-3)	
EC50 Crustacea	10.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability

FlintBoard® ISO CV; FlintBoard® H ISO NB	
Persistence and Degradability	Not established.

Bioaccumulative Potential

FlintBoard® ISO CV; FlintBoard® H ISO NB	
Bioaccumulative Potential	Not established.
n-Pentane (109-66-0)	
Partition coefficient n-octanol/water (Log Pow)	3.39
Formaldehyde (50-00-0)	
Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C)
Styrene (100-42-5)	
BCF Fish	13.5
Partition coefficient n-octanol/water (Log Pow)	2.95
Isopentane (78-78-4)	
Partition coefficient n-octanol/water (Log Pow)	3.2 – 3.3
Cyclopentane (287-92-3)	
Partition coefficient n-octanol/water (Log Pow)	2.05

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

Not regulated for transport according to: US DOT, IMDG, IATA, and Canada's TDG

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Chemical Name (CAS No.)	CERCLA RQ	EPCRA 304 RQ	SARA 302 TPQ	SARA 313
Polyisocyanurate foam (Not available)	Not applicable	Not applicable	Not applicable	No
n-Pentane (109-66-0)	Not applicable	Not applicable	Not applicable	No
Glass, oxide, chemicals (65997-17-3)	Not applicable	Not applicable	Not applicable	No
Styrene (100-42-5)	1000 lb	Not applicable	Not applicable	Yes
Carbon black (1333-86-4)	Not applicable	Not applicable	Not applicable	No
Quartz (14808-60-7)	Not applicable	Not applicable	Not applicable	No
Formaldehyde (50-00-0)	100 lb	100 lb	500 lb	Yes
Isopentane (78-78-4)	Not applicable	Not applicable	Not applicable	No
Cyclopentane (287-92-3)	Not applicable	Not applicable	Not applicable	No
Substrate (Not applicable)	Not applicable	Not applicable	Not applicable	No
Limestone (1317-65-3)	Not applicable	Not applicable	Not applicable	No

SARA 311/312 Not present

US TSCA Flags Not present

US State Regulations

California Proposition 65

 **WARNING:** This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Polyisocyanurate foam (Not available)	No	No	No	No
n-Pentane (109-66-0)	No	No	No	No
Glass, oxide, chemicals (65997-17-3)	No	No	No	No
Styrene (100-42-5)	Yes	No	No	No
Carbon black (1333-86-4)	Yes	No	No	No
Quartz (14808-60-7)	Yes	No	No	No
Formaldehyde (50-00-0)	Yes	No	No	No
Isopentane (78-78-4)	No	No	No	No
Cyclopentane (287-92-3)	No	No	No	No
Substrate (Not applicable)	No	No	No	No
Wood dust	Yes	No	No	No
Limestone (1317-65-3)	No	No	No	No

State Right-To-Know Lists

Polyisocyanurate foam

U.S. - Massachusetts - Right To Know List - No
U.S. - New Jersey - Right to Know Hazardous Substance List - No
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - No

n-Pentane (109-66-0)

U.S. - Massachusetts - Right To Know List - Yes

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U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Glass, oxide, chemicals (65997-17-3)

U.S. - Massachusetts - Right To Know List - No
U.S. - New Jersey - Right to Know Hazardous Substance List - No
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - No

Carbon black (1333-86-4)

U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Quartz (14808-60-7)

U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Formaldehyde (50-00-0)

U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - Yes
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Styrene (100-42-5)

U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Isopentane (78-78-4)

U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Cyclopentane (287-92-3)

U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Substrate

U.S. - Massachusetts - Right To Know List - No
U.S. - New Jersey - Right to Know Hazardous Substance List - No
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - No

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Wood dusts									
U.S. - Massachusetts - Right To Know List - No U.S. - New Jersey - Right to Know Hazardous Substance List - Yes U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No U.S. - Pennsylvania - RTK (Right to Know) List - Yes									
Limestone (1317-65-3)									
U.S. - Massachusetts - Right To Know List - Yes U.S. - New Jersey - Right to Know Hazardous Substance List - Yes U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No U.S. - Pennsylvania - RTK (Right to Know) List - Yes									
Canadian Regulations									
Polyisocyanurate foam									
Not listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
n-Pentane (109-66-0)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Glass, oxide, chemicals (65997-17-3)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Carbon black (1333-86-4)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Quartz (14808-60-7)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Formaldehyde (50-00-0)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Styrene (100-42-5)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Isopentane (78-78-4)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Cyclopentane (287-92-3)									
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Substrate									
Not listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Wood dust									
Not listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)									
Limestone (1317-65-3)									
Listed on the Canadian NDSL (Non-Domestic Substances List) Not listed on the Canadian DSL (Domestic Substances List)									
International Inventories/Lists									
Chemical Name (CAS No.)	Australia	Turkey	Korea	EU	EU	EU	EU	EU	Mexico

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	AICS	CICR	ECL	EINECS	ELINCS	SVHC	NLP	INSQ
Polyisocyanurate foam (Not available)	No	No	No	No	No	No	No	No
n-Pentane (109-66-0)	Yes	No	Yes	Yes	No	No	No	Yes
Glass, oxide, chemicals (65997-17-3)	Yes	No	Yes	Yes	No	No	No	Yes
Styrene (100-42-5)	Yes	No	Yes	Yes	No	No	No	No
Carbon black (1333-86-4)	Yes	No	Yes	Yes	Yes	No	No	Yes
Quartz (14808-60-7)	Yes	No	Yes	Yes	No	No	No	Yes
Formaldehyde (50-00-0)	Yes	No	Yes	Yes	No	No	No	Yes
Isopentane (78-78-4)	Yes	No	Yes	Yes	No	No	No	Yes
Cyclopentane (287-92-3)	Yes	No	Yes	Yes	No	No	No	Yes
Substrate (Not applicable)	No	No	No	No	No	No	No	No
Wood dust (Not applicable)	No	No	No	No	No	No	No	No
Limestone (1317-65-3)	Yes	No	Yes	Yes	No	No	No	Yes

Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
Polyisocyanurate foam (Not available)	No	No	No	No	No	No	No	No
n-Pentane (109-66-0)	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Glass, oxide, chemicals (65997-17-3)	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Styrene (100-42-5)	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Carbon black (1333-86-4)	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Quartz (14808-60-7)	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Formaldehyde (50-00-0)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Isopentane (78-78-4)	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Cyclopentane (287-92-3)	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Substrate (Not applicable)	No	No	No	No	No	No	No	No
Wood dust (Not applicable)	No	No	No	No	No	No	No	No
Limestone (1317-65-3)	Yes	Yes	Yes	No	No	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 06/03/2021

Revision Summary

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A

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Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
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
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Abbreviations and Acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AIHA: American Industrial Hygiene Association

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NIOSH - National Institute for Occupational Safety and Health

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

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OEL: Occupational Exposure Limits

PEL: Permissible Exposure Limits

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: United States Toxic Substances Control Act

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Saint-Gobain NA GHS SDS