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HighHeat Stick

SECTION 1: Identification

Product identifier

Product name: HighHeat Stick **Product code:** 8297CAN

Recommended use of the product and restriction on use

Relevant identified uses: Sealants and adhesives. A handy concentric, two-pack, epoxy putty stick that can be easily hand-mixed before being

used to bond and repair materials that will be exposed to high

temperatures in industrial maintenance applications.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: North America

J-B Weld Company, LLC 400 CMH Road Sulphur Springs, TX 75482 903-885-7696 info@jbweld.com

Emergency telephone number:

North America

InfoTrac 352-323-3500

SECTION 2: Hazard identification

GHS classification:

Skin sensitization, category 1

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see supplemental first aid instructions on this label).

P302+P352 IF ON SKIN: Wash with plenty of water/soap.



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P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or a rash occurs: Get medical advice/attention P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 14807-96-6	Talc (non asbestiform)	10-30
CAS number: 14808-60-7	Silica, crystalline quartz	10-30
CAS number: 112-24-3	Triethylenetetramine	0.1-1
CAS number: 65997-17-3	Glass, oxide, chemicals	10-30
CAS number: 25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	0.1-1
CAS number: 140-31-8	1-Piperazineethanamine	0.1-1
CAS number: 14464-46-1	Cristobalite	10-30

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the Canadian Hazardous Products Regulation and WHMIS 2015.

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Not determined or not available.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

After ingestion:

Rinse mouth thoroughly

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Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

May cause an allergic skin reaction

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, metal oxides/oxides

Special protective equipment for firefighters:

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

Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

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Small spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor

Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

Store between the following temperatures: 5 to 30°C (41 to 86°F).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Canada	Triethylenetetramine	112-24-3	Ontario: 8-hour TWA 3.0 mg/m³ (0.5 ppm)
	Silica, crystalline quartz	14808-60-7	Alberta OELs - 8-Hour TWA Exposure Limit: 0.025 mg/m³ (respirable)
	Silica, crystalline quartz	14808-60-7	British Columbia OELs - 8-Hour TWA Exposure Value: 0.025 mg/m³ (respirable)
	Glass, oxide, chemicals	65997-17-3	Alberta OELs - 8-hour TWA Exposure Limit: 5 mg/m³
	Silica, crystalline quartz	14808-60-7	Manitoba OELs - 8-Hour TWA Exposure Limit: 0.025 mg/m³ (respirable fraction)
	Glass, oxide, chemicals	65997-17-3	British Columbia OELs - 8-hour TWA Exposure Limit: 5 mg/m³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silica, crystalline quartz	14808-60-7	Ontario OELs - 8-Hour TWA Exposure Limit: 0.10 mg/m³ (respirable fraction)
	Glass, oxide, chemicals	65997-17-3	Manitoba OELs - 8-hour TWA Exposure Limit: 5 mg/m³
	Silica, crystalline quartz	14808-60-7	Quebec OELs - 8-Hour TWA Exposure Value: 0.1 mg/m³ (respirable)
	Glass, oxide, chemicals	65997-17-3	Ontario OELs - 8-hour TWA Exposure Limit: 5 mg/m³
	Silica, crystalline quartz	14808-60-7	Saskatchewan OELs - 15 Minute Average Contamination Limit: 0.05 mg/m³ (respirable fraction)
	Glass, oxide, chemicals	65997-17-3	Saskatchewan OELs - 8 Hour Average Contamination Limit: 5 mg/m³
	Talc (non asbestiform)	14807-96-6	Alberta OELs - 8- hour TWA Exposure Limit: 2 mg/m³
	Talc (non asbestiform)	14807-96-6	British Columbia OELs - 8-Hour TWA Exposure Value: 2 mg/m³ (respirable)
	Talc (non asbestiform)	14807-96-6	Manitoba OELs - 8-Hour Exposure Limit (TLV-TWA): 2 mg/m³ (respirable fraction)
	Talc (non asbestiform)	14807-96-6	Ontario OELs - 8-Hour TWA Exposure Value (TWA): 2 mg/m³ (respirable fraction)
	Talc (non asbestiform)	14807-96-6	Quebec OELs - 8-Hour TWA Exposure Value: 3 mg/m³ (respirable fraction)
	Talc (non asbestiform)	14807-96-6	Saskatchewan OELs - 8 Hour Average Contamination Limit: 2 mg/m³ (respirable fraction)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

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Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Metallic grey-beige solid
Odor:	Ethereal
Odor threshold:	Not determined or not available.
pH-value:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	1.741
Solubilities:	Insoluble in the following materials: cold water and hot water.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	>200°C (>392°F)
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

voc	0.215 lbs/gal (25.7 g/l)

SECTION 10: Stability and reactivity

Reactivity:

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Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
1-Piperazineethanamine	oral	LD50 - Chicken - 1,500 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
Triethylenetetramine	Causes severe skin burns and eye damage.
Phenol, 4,4'-(1- methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	Causes skin irritation.
1-Piperazineethanamine	Corrosive to the skin.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
1	Causes serious eye irritation.
methylethylidene)bis-, polymer	
with 2-(chloromethyl)oxiran	

Respiratory or skin sensitization

Assessment:

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May cause an allergic skin reaction

Product data:No data available.

Substance data:

Name	Result
Triethylenetetramine	May cause an allergic skin reaction.
Phenol, 4,4'-(1- methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	May cause an allergic skin reaction.
1-Piperazineethanamine	Sensitization possible through skin contact.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Species	Result
Not applicable.	IARC classifies TiO2 as a 2B carcinogen based in large part on several studies of the effects of the inhalation of TiO2 on animals in which the TiO2 particles were of various sizes. Particles defined as "ultrafine" have been shown to cause cancer in animals exposed to very high concentrations. A number of authorities have reviewed those studies and others involving exposure to ultrafine particles and have concluded that the effects result from overloading the respiratory system of the animals. The effects observed, according to the scientists, are not due to TiO2 but are general responses to high levels of dust in the lungs. In addition, a carcinogenic effect of TiO2 dust in the workers was not observed in several epidemiology studies on more than 20,000 TiO2 industry workers in Europe and the USA, nor were other chronic diseases, including other respiratory diseases, associated with exposure to TiO2 dust. Accordingly, we have concluded that our products should not be classified on the basis of the presence of TiO2 in the products.

Substance data:

Name	Species	Result
Glass, oxide, chemicals	Not applicable	May cause cancer via inhalation.
Silica, crystalline quartz	Not applicable	Component may cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Talc (non asbestiform)	Group 3 - Not classifiable as to its carcinogenicity to humans
Glass, oxide, chemicals	Group 2B
Silica, crystalline quartz	Group 1 - Carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification
Cristobalite	Known to be human carcinogens
Glass, oxide, chemicals	Reasonably anticipated to be human carcinogens
Silica, crystalline quartz	Known to be human carcinogens

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

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No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
Cristobalite	Component affects the lungs through repeated exposure.
Silica, crystalline quartz	Component affects the lungs through repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Triethylenetetramine	LC50 - Daphnia magna (Water flea) - 33.9 mg/L - 48 h

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

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Persistence and degradability

Product data: No data available. **Substance data:** No data available.

Bioaccumulative potential

Product data: No data available. **Substance data:** No data available.

Mobility in soil

Product data: No data available. **Substance data:** No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

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Special precautions for user	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

14807-96-6	Talc (non asbestiform)	Listed
14464-46-1	Cristobalite	Listed
65997-17-3	Glass, oxide, chemicals	Listed
14808-60-7	Silica, crystalline quartz	Listed
112-24-3	Triethylenetetramine	Listed
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran	Listed
140-31-8	1-Piperazineethanamine	Listed

Non-domestic substances list (NDSL): None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet