

SAFETY DATA SHEET
TEC® NOSE CAULK PART B

Version 0.0

Revision Date 11/08/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TEC® NOSE CAULK PART B
 Product code : 100000024309

Manufacturer or supplier's details

Company : H.B. Fuller Company
 Address : 1200 Willow Lake Boulevard
 Vadnais Heights, MN 55110
 Telephone : 1-888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Epoxy curing agent
 Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION
Emergency Overview

Appearance	paste
Color	gray
Odor	characteristic

GHS Classification

Flammable liquids : Category 4
 Acute toxicity (Oral) : Category 4
 Skin corrosion : Category 1B
 Serious eye damage : Category 1
 Skin sensitization : Category 1
 Reproductive toxicity : Category 2
 Specific target organ toxicity - repeated exposure : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Danger

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Hazard Statements:

H227 Combustible liquid. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects
Carcinogenicity:
IARC

Group 1: Carcinogenic to humans
 During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

Quartz (SiO₂) 14808-60-7

OSHA

Group 1: Carcinogenic to humans

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogen
 During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

Quartz (SiO₂) 14808-60-7

Known to be human carcinogen

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
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Phenol, 4-nonyl-, branched	84852-15-3	10 - 20
2-piperazin-1-ylethylamine	140-31-8	5 - 10
benzyl alcohol	100-51-6	1 - 5
Quartz (SiO ₂)	14808-60-7	1 - 5
Actual concentration is withheld as a trade secret		
Limestone	1317-65-3	30 - 50
Calcium carbonate	471-34-1	30 - 50
nonylphenol	25154-52-3	10 - 20
Phenol, 4-nonyl-, branched	84852-15-3	10 - 20
2-piperazin-1-ylethylamine	140-31-8	5 - 10
benzyl alcohol	100-51-6	1 - 5
3-aminopropyldimethylamine	109-55-7	0.1 - 1
Quartz (SiO ₂)	14808-60-7	0.1 - 1
phenol	108-95-2	0.1 - 1
Actual concentration is withheld as a trade secret		

SECTION 4. FIRST AID MEASURES

- General advice : Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
 If not breathing, give artificial respiration.
 Keep patient warm and at rest.
 Consult a physician after significant exposure.
- In case of skin contact : Take off all contaminated clothing immediately.
 Wash off immediately with soap and plenty of water.
 Call a physician if irritation develops or persists.
 Wash contaminated clothing before re-use.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
 Protect unharmed eye.
- If swallowed : If swallowed, call a poison control center or doctor immediately.
 Do NOT induce vomiting.
 If victim is fully conscious, give a cupful of water.
 If possible drink milk afterwards.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.
 May cause an allergic skin reaction.
 Causes serious eye damage.
 Suspected of damaging fertility or the unborn child.
 Causes damage to organs through prolonged or repeated exposure.
 Causes severe burns.
- Notes to physician : No further relevant information available.

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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific extinguishing methods :
 Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent product from entering drains.
 Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
 Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Wear personal protective equipment.
 Do not get on skin or clothing.
 Use only in an area equipped with a safety shower.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
- Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters /	Basis
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		exposure)	Permissible concentration	
Limestone	1317-65-3	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total)	15 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA (Total dust)	15 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
Calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m ³	CAL PEL
		PEL (respirable dust fraction)	5 mg/m ³	CAL PEL
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
Quartz (SiO ₂)	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (total dust)	30 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
		TWA (Respirable fraction)	0.1 mg/m ³	OSHA P0
		TWA (Respirable dust)	0.05 mg/m ³	OSHA Z-1
		PEL (Respirable)	0.05 mg/m ³	CAL PEL

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		dust)		
		TWA (respirable dust fraction)	0.1 mg/m ³	OSHA P0
phenol	108-95-2	TWA	5 ppm	ACGIH
		TWA	5 ppm 19 mg/m ³	OSHA Z-1
		TWA	5 ppm 19 mg/m ³	OSHA P0
		PEL	5 ppm 19 mg/m ³	CAL PEL

Engineering measures : Please take care on national and local requirements.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapor type

Hand protection
Material : butyl-rubber

Eye protection : Safety goggles
Face-shield
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Long sleeved clothing
Chemical resistant apron

Protective measures : Avoid contact with skin.

Hygiene measures : Avoid contact with skin, eyes and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste
 Color : gray
 Odor : characteristic
 Odor Threshold : no data available
 pH : Not applicable
 Melting point/freezing point : is not determined
 Boiling point/boiling range : is not determined

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Flash point	: 92 °C
	Not applicable
Evaporation rate	: is not determined
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Vapor pressure	: is not determined
Density	: 1.7 - 1.75 g/cm ³
Solubility(ies)	
Water solubility	: is not determined
Partition coefficient: n- octanol/water	: no data available
Autoignition temperature	: is not determined
Thermal decomposition	: Not applicable
Viscosity	
Viscosity, kinematic	: is not determined
Explosive properties	: Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No further relevant information available.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Strong exothermic reaction with acids.
Conditions to avoid	: No further relevant information available.
Incompatible materials	: No further relevant information available.
Hazardous decomposition products	: Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate : 1,785 mg/kg Method: Calculation method
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Acute inhalation toxicity : Acute toxicity estimate : > 200 mg/l
Exposure time: 4 Hours
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 4,933 mg/kg
Method: Calculation method

Components:**Phenol, 4-nonyl-, branched:**

Acute oral toxicity : LD50 Oral Rat: 580 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 2,031 mg/kg

2-piperazin-1-ylethylamine:

Acute oral toxicity : LD50 Oral Rat: 2,140 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 880 mg/kg

benzyl alcohol:

Acute oral toxicity : LD50 Mouse: 1,580 mg/kg

Acute inhalation toxicity : LC50 Rat: 4.178 mg/l
Test atmosphere: vapor

Acute dermal toxicity : LD50 Rabbit: 2,000 mg/kg

nonylphenol:

Acute oral toxicity : LD50 Oral Rat: 580 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 2,031 mg/kg

Phenol, 4-nonyl-, branched:

Acute oral toxicity : LD50 Oral Rat: 580 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 2,031 mg/kg

2-piperazin-1-ylethylamine:

Acute oral toxicity : LD50 Oral Rat: 2,140 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 880 mg/kg

benzyl alcohol:

Acute oral toxicity : LD50 Mouse: 1,580 mg/kg

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Acute inhalation toxicity : LC50 Rat: 4.178 mg/l
Test atmosphere: vapor

Acute dermal toxicity : LD50 Rabbit: 2,000 mg/kg

phenol:
Acute dermal toxicity : LD50 Dermal Rabbit: 630 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Phenol, 4-nonyl-, branched :**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.135 mg/l
Exposure time: 96 h
Test Method: flow-through test

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.14 mg/l
Exposure time: 48 h
Test Method: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.16 - 0.72 mg/l
Exposure time: 72 h
Test Type: static test

2-piperazin-1-ylethylamine :

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 32 mg/l
Exposure time: 48 h
Test Method: static test

benzyl alcohol :

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 10 mg/l
Exposure time: 96 h
Test Method: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 23 mg/l
Exposure time: 48 h
Test Method: static test

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 35 mg/l
Exposure time: 3 h
Test Type: flow-through test

nonylphenol :

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.135 mg/l
Exposure time: 96 h
Test Method: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0874 - 0.124 mg/l
Exposure time: 48 h
Test Method: semi-static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.41 mg/l
Exposure time: 96 h
Test Type: flow-through test

Phenol, 4-nonyl-, branched :

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.135 mg/l
Exposure time: 96 h
Test Method: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.14 mg/l
Exposure time: 48 h
Test Method: static test

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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.16 - 0.72 mg/l
Exposure time: 72 h
Test Type: static test

2-piperazin-1-ylethylamine :

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 32 mg/l
Exposure time: 48 h
Test Method: static test

benzyl alcohol :

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 10 mg/l
Exposure time: 96 h
Test Method: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 23 mg/l
Exposure time: 48 h
Test Method: static test

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 35 mg/l
Exposure time: 3 h
Test Type: flow-through test

Persistence and degradability

No data available

Bioaccumulative potential**Components:****2-piperazin-1-ylethylamine :**

Partition coefficient: n-octanol/water : log Pow: -1.57

benzyl alcohol :

Partition coefficient: n-octanol/water : log Pow: 1.10

nonylphenol :

Partition coefficient: n-octanol/water : log Pow: 5.71

2-piperazin-1-ylethylamine :

Partition coefficient: n-octanol/water : log Pow: -1.57

benzyl alcohol :

Partition coefficient: n-octanol/water : log Pow: 1.10

phenol :

Partition coefficient: n-octanol/water : log Pow: 1.46

Mobility in soil

No data available

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.
- Contaminated packaging : Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

- UN/ID No. : UN 1760
Proper shipping name : Corrosive liquid, n.o.s.
(4-nonylphenol, branched)
Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG-Code

- UN number : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
()
Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

- UN/ID/NA number : UN 1760
Proper shipping name : Corrosive liquids, n.o.s.

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(4-nonylphenol, branched)

Class : 8
Packing group : III
Labels : CORROSIVE
ERG Code : 154
Marine pollutant : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

nonylphenol	25154-52-3
Phenol, 4-nonyl-, branched	84852-15-3

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TSCA All substances listed as active on the TSCA inventory

DSL All components are listed on the inventory, regulatory obligations/restrictions apply

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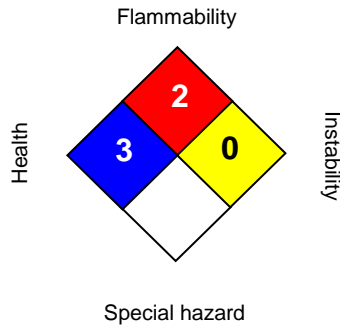
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Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Office - phone: 1-651-236-5842 - email: msds.request@hbfuller.com

Further information
NFPA:

HMIS III:

HEALTH	3*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.