SAFETY DATA SHEET



1. Product and Company Identification

Product identifier Quick Seal Repair Patch (4299-25, 4299-26, 4299-27)

Other means of identificationNot availableRecommended useRepairs and sealsRecommended restrictionsNone known.Manufacturer informationNu-Calgon

2611 Schuetz Road St. Louis, MO 63043 US

Phone: 314-469-7000 / 800-554-5499

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

Supplier See above.

2. Hazards Identification

Physical hazards Not classified.

Health hazardsCarcinogenicityCategory 2Reproductive toxicity (the unborn child)Category 2

Environmental hazards Not classified.

WHMIS 2015 defined hazards

Label elements

Not classified



Signal word Warning

Hazard statement Suspected of causing cancer. Suspected of damaging the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves, protective clothing, eye protection and face protection.

Response IF exposed or concerned: Get medical attention.

Storage Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

None known

classified (PHNOC)
Hazard(s) not otherwise

Supplemental information

None known.

classified (HNOC)

None.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Carbonic acid calcium salt (1:1)		471-34-1	45-70*
Fibrous glass		65997-17-3	10-30*
Styrene		100-42-5	0.1-1*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments US GHS: The exact percentage (concentration) of composition has been withheld as a trade

secret in accordance with paragraph (i) of §1910.1200.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

#31054 Page: 1 of 9 Issue date 22-July-2019

	4. First Ai	d Measures		
Inhalation	Not a normal route of harmful persist, obtain medical attention		elop move vi	ctim to fresh air. If symptoms
Skin contact	Flush with cool water. Wash w	rith soap and water. Obtain	medical atte	ntion if irritation persists.
Eye contact	Flush with cool water. Remove attention if irritation persists.	e contact lenses, if applicable	le, and conti	nue flushing. Obtain medical
Ingestion	Not a normal route of harmful naturally, have victim lean for victim is unconscious or is cor	vard to reduce risk of aspira	ition. Never o	
Most important symptoms/effects, acute and delayed	Direct contact with skin may c irritation.	ause irritation. Direct contac	ct with eyes r	may cause temporary
Indication of immediate medical attention and special treatment needed	Provide general supportive me	easures and treat symptoma	atically. Sym	ptoms may be delayed.
General information	IF exposed or concerned: Get label where possible). Ensure take precautions to protect the Avoid contact with eyes and s	that medical personnel are mselves. Show this safety of	aware of the	material(s) involved and
	5. Fire Fight	ing Measures		
Suitable extinguishing media	Water fog. Dry chemical powd	er. Carbon dioxide.		
Unsuitable extinguishing media	Do not use water jet as an ext		d the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous t	o health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			e worn in case of fire.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.			
Specific methods	Use standard firefighting proce	edures and consider the haz	zards of othe	er involved materials.
General fire hazards	No unusual fire or explosion hazards noted.			
Hazardous combustion products	May include and are not limite	d to: Oxides of carbon.		
	6. Accidental R	elease Measures		
Personal precautions, protective equipment and	Avoid contact with eyes and s	sin.		
Methods and materials for containment and cleaning up	Pick up and discard.			
Environmental precautions	Avoid discharge into drains.			
	7. Handling	and Storage		
Dragovii and for onfo bondling			l all a afatri a	roccutions have been road
Precautions for safe handling	Obtain special instructions befand understood. Pregnant or heat, sparks and open flame. equipment. Wash thoroughly a material. When using do not e	oreastfeeding women must in Avoid prolonged exposure. In after handling. Use good ind	not handle th Wear approp	nis product. Keep away from priate personal protective
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store below 22°C.			
	8. Exposure Control	s/Personal Protection	n	
Occupational exposure limits				
Canada. Alberta OELs (Occu Components	upational Health & Safety Cod Type	e, Schedule 1, Table 2) Value	9	Form
Carbonic acid calcium salt	TWA	10 mg	g/m3	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)ComponentsTypeValueFormCarbonic acid calcium salt (1:1) (CAS 471-34-1)TWA10 mg/m3Fibrous glass (CAS 65997-17-3)TWA0.2 fibers/cm3Fiber.5 mg/m3Total particulate.
5 mg/m3Fiber, total

Canada. Alberta OELs (Occupational Hea Components	alth & Safety Code, Schedule 1, Tab Type	le 2) Value	Form
Styrene (CAS 100-42-5)	STEL	170 mg/m3 40 ppm	
	TWA	85 mg/m3 20 ppm	
Canada. British Columbia OELs. (Occupa Safety Regulation 296/97, as amended)	ational Exposure Limits for Chemica	al Substances, Occ	cupational Health and
Components	Туре	Value	Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3 10 mg/m3	Respirable fraction. Total dust.
Fibrous glass (CAS 65997-17-3)	TWA	0.2 fibers/cm3	Fiber.
		5 mg/m3	Inhalable fibers.
Styrene (CAS 100-42-5)	STEL	75 ppm	
	TWA	50 ppm	
Canada. Manitoba OELs (Reg. 217/2006, Components	The Workplace Safety And Health A Type	Act) Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	5 mg/m3	Inhalable fraction.
Styrene (CAS 100-42-5)	STEL	40 ppm	
	TWA	20 ppm	
Canada. Ontario OELs. (Control of Expos	sure to Biological or Chemical Agen	nts)	
Components	Туре	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	0.5 fibers/ml	Respirable fibers.
		5 mg/m3	Inhalable fraction.
Styrene (CAS 100-42-5)	STEL	100 ppm	
	TWA	35 ppm	
Canada. Quebec OELs. (Ministry of Labo Components	r - Regulation Respecting the Quali Type	ty of the Work Env Value	ironment) Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	TWA	10 mg/m3	Total dust.
Fibrous glass (CAS 65997-17-3)	TWA	1 fibers/cm3n	Fiber.
		10 mg/m3	Total dust.
Styrene (CAS 100-42-5)	STEL	426 mg/m3 100 ppm	
	TWA	213 mg/m3 50 ppm	
US. OSHA Table Z-1 Limits for Air Contain	minants (29 CFR 1910.1000)		
Components	Туре	Value	Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
US. OSHA Table Z-2 (29 CFR 1910.1000)		15 mg/m3	Total dust.
-	Туре	Value	
Components	Type	Tuluo	
Components Styrene (CAS 100-42-5)	Ceiling	200 ppm	

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Styrene (CAS 100-42-5)	STEL	40 ppm	
	TWA	20 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
()		10 mg/m3	Total
Fibrous glass (CAS 65997-17-3)	TWA	3 fibers/cm3	Fibrous dust.
,		3 fibers/cm3	Fiber.
		5 mg/m3	Fiber, total
		5 mg/m3	fibers, total dust
Styrene (CAS 100-42-5)	STEL	425 mg/m3	
		100 ppm	
	TWA	215 mg/m3	
		50 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Styrene (CAS 100-42-5)	40 μg/l	Styrene	Urine	*	
	400 mg/g	Mandelic acid plus phenylglyoxylic acid	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

Canada - Quebec OELs: Skin designation

Styrene (CAS 100-42-5)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance A soft, tacky material

Physical state Solid.
Form Powder.
Color Grey
Odor Sweet
Odor threshold Low

pH Not available.Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available.

Pour pointNot available.Specific gravityNot available.Partition coefficientNot available.

(n-octanol/water)

Flash point 840.0 °F (448.9 °C)

Evaporation rate 0

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

> 0.9 (Styrene)

(%)

Flammability limit - upper

< 6.6 (Styrene)

Not applicable

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure 4.5 (styrene) Vapor density 3.6 (styrene) Relative density Not available. Solubility(ies) Insoluble Not available. **Auto-ignition temperature** Not available. **Decomposition temperature**

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

10. Stability and Reactivity

Reactivity

Viscosity

This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Do not mix with other chemicals. High temperatures.

Incompatible materials Oxidizers.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Inhalation Not a normal route of exposure. Prolonged inhalation may be harmful.

Skin contact Direct contact with skin may cause irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with skin may cause irritation. Direct contact with eyes may cause temporary

irritation.

Information on toxicological effects

Acute toxicity

Components Species Test Results

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Acute

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 3 mg/L, 4 Hours, ECHA

Components Species Test Results

Oral

LD50 Mouse 6450 mg/kg, HSDB

Rat > 2000 mg/kg, ECHA

Fibrous glass (CAS 65997-17-3)

AcuteDermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat > 5000 mg/kg, ECHA

> 2000 mg/kg, ECHA

Styrene (CAS 100-42-5)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Guinea pig > 5.1 mg/L, 7 Hours, ECHA

Mouse > 2.1 mg/L, 6 Hours, ECHA

4940 ppm, 2 Hours, HSDB

Rat 2770 ppm, 4 Hours, HSDB

24 mg/L, 4 Hours, HSDB

11.8 mg/l/4h, ECHA

Oral

LD50 Hamster, Syrian > 6000 mg/kg, ECHA

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema valueNot available.Recover daysNot available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Fibrous glass (CAS 65997-17-3)

Irritant

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

See below.

ACGIH Carcinogens

Fibrous glass (CAS 65997-17-3)

A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

Fibrous glass (CAS 65997-17-3) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

REFRACTORY CERAMIC FIBERS (CAS 65997-17-3) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

Fibrous glass (CAS 65997-17-3) Detected carcinogenic effect in animals. Styrene (CAS 100-42-5) Detected carcinogenic effect in animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

Styrene (CAS 100-42-5) Volume 60, Volume 82 - 2B Possibly carcinogenic to humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Styrene (CAS 100-42-5)

US NTP Report on Carcinogens: Anticipated carcinogen

Styrene (CAS 100-42-5) Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Suspected of damaging the unborn child.

Teratogenicity Specific target organ toxicity - Not available.

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure Aspiration hazard

Not an aspiration hazard.

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. **Chronic effects**

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components **Test Results Species**

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 56000 mg/L, 96 hours

Styrene (CAS 100-42-5)

IC50 Algae Algae 1.4 mg/L, 72 Hours EC50 5.35 mg/L, 48 Hours Crustacea Daphnia

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 3.3 - 7.4 mg/L, 48 hours Fish LC50 Sheepshead minnow (Cyprinodon 5.1 - 16 mg/L, 96 hours

variegatus)

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil No data available. Mobility in general Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

#31054 Page: 7 of 9 Issue date 22-July-2019

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Listed.

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Fibrous glass (CAS 65997-17-3)

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Styrene (CAS 100-42-5) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All chemicals used are on the TSCA inventory.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Styrene (CAS 100-42-5) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

No

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 Styrene
 100-42-5
 0.1-1*

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Styrene (CAS 100-42-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

Fibrous glass (CAS 65997-17-3) Listed. Styrene (CAS 100-42-5) Listed.

US - Illinois Chemical Safety Act: Listed substance

Styrene (CAS 100-42-5)

US - Louisiana Spill Reporting: Listed substance

Styrene (CAS 100-42-5) Listed.

US - Michigan Critical Materials Register: Parameter number

Styrene (CAS 100-42-5)

US - Minnesota Haz Subs: Listed substance

Carbonic acid calcium salt (1:1) (CAS 471-34-1) Listed. Fibrous glass (CAS 65997-17-3) Listed. Styrene (CAS 100-42-5) Listed.

US - New Jersey RTK - Substances: Listed substance

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Fibrous glass (CAS 65997-17-3)

Styrene (CAS 100-42-5)

US - North Carolina Toxic Air Pollutants: Listed substance

Styrene (CAS 100-42-5)

US - Texas Effects Screening Levels: Listed substance

Carbonic acid calcium salt (1:1) (CAS 471-34-1) Listed. Fibrous glass (CAS 65997-17-3) Listed. Styrene (CAS 100-42-5) Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Styrene (CAS 100-42-5)

US. Massachusetts RTK - Substance List

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Fibrous glass (CAS 65997-17-3)

Styrene (CAS 100-42-5)

US. New Jersey Worker and Community Right-to-Know Act

Styrene (CAS 100-42-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Fibrous glass (CAS 65997-17-3)

Styrene (CAS 100-42-5)

US. Rhode Island RTK

Carbonic acid calcium salt (1:1) (CAS 471-34-1)

Fibrous glass (CAS 65997-17-3)

Styrene (CAS 100-42-5)

US. California Proposition 65



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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Styrene (CAS 100-42-5) Listed: April 22, 2016

Inventory status

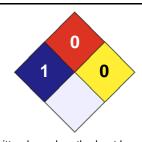
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information







Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained

in this document.

Issue date 22-July-2019

Version # 01

22-July-2019 **Effective date**

Nu-Calgon Technical Service Phone: (314) 469-7000 Prepared by

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.