

SAFETY DATA SHEET

	1. Product and Company Ide	
Product identifier	Quick Seal Repair Patch (4299-25, 4299-	26, 4299-27)
Other means of identification	Not available	
Recommended use	Repairs and seals	
Recommended restrictions	None known.	
Manufacturer information Supplier	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEN See above.	MTREC)
	2. Hazards Identificat	ion
Physical hazards	Not classified.	
Health hazards		Category 2
	Reproductive 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 o	f damaging the unborn child.
Precautionary statement		
Prevention	Obtain special instructions before use. Do i and understood. Wear protective gloves, pr	not handle until all safety precautions have been read rotective clothing, eye protection and face protection.
Response	IF exposed or concerned: Get medical atter	ntion.
Storage	Store locked up.	
Disposal	Dispose of container in accordance with loo	cal, 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	
Hazard(s) not otherwise classified (HNOC)	None known.	
X 7		

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.

	4. First Aid Measures
Inhalation	Not a normal route of harmful exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Ingestion	Not a normal route of harmful exposure. Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
Most important symptoms/effects, acute and delayed	Direct contact with skin may cause irritation. Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.
	5. Fire Fighting Measures
Suitable extinguishing media	Water fog. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to 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.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
	6. Accidental Release Measures
Personal precautions, protective equipment and emergency procedures	Avoid contact with eyes and skin.
Methods and materials for containment and cleaning up	Pick up and discard.
Environmental precautions	Avoid discharge into drains.
	7. Handling and Storage
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. Keep away from heat, sparks and open flame. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
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 Controls/Personal Protection

Components	Туре	Value	Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	TWA	10 mg/m3	
Fibrous glass (CAS 65997-17-3)	TWA	0.2 fibers/cm3	Fiber.
		5 mg/m3 5 mg/m3	Total particulate. Fiber, total

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value Form
Styrene (CAS 100-42-5)	STEL	170 mg/m3
		40 ppm
	TWA	85 mg/m3
		20 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	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, The Workplace Safety And Health Act)

Components	Туре	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 Exposure to Biological or Chemical Agents)

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 Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	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 Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Carbonic acid calcium salt (1:1) (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
Styrene (CAS 100-42-5)	Ceiling	200 ppm	
	TWA	100 ppm	

Components	Туре	Value	
Styrene (CAS 100-42-5)	STEL	40 ppm	
	TWA	20 ppm	
US. NIOSH: Pocket Guide to Cher	nical 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

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
рН	Not available.
Melting point/freezing point	Not available.

Initial boiling point and boiling range	Not available.			
Pour point	Not available.			
Specific gravity	Not available.			
Partition coefficient (n-octanol/water)	Not available.			
Flash point	840.0 °F (448.9 °C)			
Evaporation rate	0			
Flammability (solid, gas)	Not applicable.			
Upper/lower flammability or exp	losive limits			
Flammability limit - lower (%)	> 0.9 (Styrene)			
Flammability limit - upper (%)	< 6.6 (Styrene)			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	4.5 (styrene)			
Vapor density	3.6 (styrene)			
Relative density	Not available.			
Solubility(ies)	Insoluble			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity	Not applicable			
Other information				
Explosive properties	Not explosive.			
Oxidizing properties	Not oxidizing.			
	10. Stability and Reactiv	ity		
Reactivity	This product may react with strong oxidizing a	-		
Possibility of hazardous	No dangerous reaction known under conditions of normal use.			
reactions				
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 o	carbon.		
	11. Toxicological Information	tion		
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.			
Information on likely routes of e	xposure			
Ingestion	Not a normal route of exposure. May cause st	tomach 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. I irritation.	Direct contact with eyes may cause temporary		
Information on toxicological effe	ects			
Acute toxicity				
Components	Species	Test Results		
Carbonic acid calcium salt (1:1) (C	AS 471-34-1)			
Acute				
Dermal LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA		
Inhalation				
LC50	Rat	> 3 mg/L, 4 Hours, ECHA		
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Components	Species		Test Results
Oral LD50	Mouse		6450 mg/kg, HSDB
LDSU	Rat		
Eibroug gloss (CAS 65007 17 2)	Nat		> 2000 mg/kg, ECHA
Fibrous glass (CAS 65997-17-3) Acute			
Dermal			
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	Rat		2000 mg/kg, 24 hours
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 c	ause temporary irritatio	n.
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritati	on.
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitization Canada - Alberta OELs: Irrit			
Carbonic acid calcium sa Fibrous glass (CAS 6599	lt (1:1) (CAS 471-34-1)	Irritant Irritant	
Respiratory sensitization	Not a respiratory sensitizer.	IIIIdiit	
Skin sensitization	This product is not expected to	o cause skin sensitizati	on.
Mutagenicity			ents present at greater than 0.1% are
0	mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer. See below.		
ACGIH Carcinogens			
Fibrous glass (CAS 6599 Canada - Alberta OELs: Car		A2 Suspected huma	n carcinogen.
Fibrous glass (CAS 6599		Suspected human ca	arcinogen.
Canada - Manitoba OELs: carcinogenicity REFRACTORY CERAMIC FIBERS (CAS 65997-17-3)		Suspected human carcinogen.	
REI RAGI ORT GERAIMI		Suspected numan Ca	

Transport of Dangerous Goods (TDG) Proof of Classification		oods Regulations. I		2.1 – 2.8 of the Transportation of cal name and the classification of the
	Closefficient	14. Transport I		
Contaminated packaging	ntaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.			
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).			
	disposal company.			
Local disposal regulations Hazardous waste code	Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste			
-	contents/container in accordance with local/regional/national/international regulations.			
Disposal instructions		•		ensed waste disposal site. Dispose of
	1	3. Disposal Co	onsiderations	
Other adverse effects				etion, photochemical ozone creation are expected from this component.
Mobility in general	Not available.			
Mobility in soil	No data availa			
Bioaccumulative potential				
Persistence and degradability	No data is ava	ailable on the degrad	dability of this product.	
Fish	LC50	Sheepshead minr variegatus)	now (Cyprinodon	5.1 - 16 mg/L, 96 hours
-	EC50	Water flea (Daphr	nia magna)	3.3 - 7.4 mg/L, 48 hours
Aquatic				
5	EC50	Daphnia		5.35 mg/L, 48 Hours
	IC50	Algae		1.4 mg/L, 72 Hours
Styrene (CAS 100-42-5)	2000			
Aquatic Fish	LC50	Western mosquite	ofish (Gambusia affinis)	> 56000 mg/L, 96 hours
Carbonic acid calcium salt (1:1) (C	AS 471-34-1)			
Components		Species		Test Results
Ecotoxicological data				
Ecotoxicity	See below			
		12. Ecological	Information	
Chronic effects	Prolonged inh	alation may be harr	mful. Prolonged exposu	re may cause chronic effects.
Aspiration hazard	Not an aspirat	tion hazard.		
Specific target organ toxicity - repeated exposure	Not classified.			
Specific target organ toxicity - single exposure	Not classified.			
Teratogenicity	Not available.			
Reproductive toxicity	-	damaging the unbo	rn child.	
US. OSHA Specifically Regu Not listed.	lated Substand			
US NTP Report on Carcinog Styrene (CAS 100-42-5)	ens: Anticipate	-	easonably Anticipated t	o be a Human Carcinogen.
US - California Proposition (Styrene (CAS 100-42-5)		-	ic substance	
Styrene (CAS 100-42-5)				2B Possibly carcinogenic to humans.
Styrene (CAS 100-42-5) IARC Monographs. Overall Evaluation of Carcinogenicity			etected carcinogenic ef	iect in animais.
Fibrous glass (CAS 65997-17-3)				
Fibrous glass (CAS 6599	7-17-3)	ם	etected carcinogenic ef	fact in animals

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

Canadian federal regulations Canada CEPA Schedule I: Li Fibrous glass (CAS 6599) Canada NPRI VOCs with Add Styrene (CAS 100-42-5) Export Control List (CEPA 1 Not listed. Greenhouse Gases Not listed. Precursor Control Regulatio	contains all the information isted substance 7-17-3) ditional Reporting Requiren 999, Schedule 3)	required by the HPR Listed.	with the hazard criteria of the HPR and the SDS ng threshold/Identification Number	
Fibrous glass (CAS 6599 Canada NPRI VOCs with Add Styrene (CAS 100-42-5) Export Control List (CEPA 1 Not listed. Greenhouse Gases Not listed.	7-17-3) ditional Reporting Requiren 999, Schedule 3)	nents: Mass reporti	ng threshold/Identification Number	
Canada NPRI VOCs with Add Styrene (CAS 100-42-5) Export Control List (CEPA 1 Not listed. Greenhouse Gases Not listed.	ditional Reporting Requiren 999, Schedule 3)	nents: Mass reporti	ng threshold/Identification Number	
Not listed. Greenhouse Gases Not listed.				
Not listed.				
Precursor Control Regulatio				
•	ons			
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 t	he TSCA inventory.		
TSCA Section 12(b) Export I	Notification (40 CFR 707, Su	ıbpt. D)		
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302 4)			
Styrene (CAS 100-42-5)		Listed.		
US. OSHA Specifically Regu Not listed.	llated Substances (29 CFR ⁻			
Superfund Amendments and Re	authorization Act of 1986 (S	SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No	,		
SARA 302 Extremely	Reactivity Hazard - No No			
hazardous substance SARA 311/312 Hazardous chemical	No			
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 Polluta	nts (HAPs) List		
Styrene (CAS 100-42-5) Clean Air Act (CAA) Section			68.130)	
Not regulated.				
US state regulations	See below			
US - California Hazardo	us Substances (Director's):	Listed substance		
Fibrous glass (CAS 6 Styrene (CAS 100-42	,	Listed. Listed.		
US - Illinois Chemical S Styrene (CAS 100-42	afety Act: Listed substance			
US - Louisiana Spill Rep	oorting: Listed substance	Listad		
-	laterials Register: Paramete	Listed. er number		
Styrene (CAS 100-42 US - Minnesota Haz Sub	,			
	m salt (1:1) (CAS 471-34-1) 65997-17-3)	Listed. Listed. Listed.		

US New Jaroay BTK	Substances: Listed substance		
•			
Fibrous glass (CAS	ım salt (1:1) (CAS 471-34-1) 65997-17-3)		
Styrene (CAS 100-4			
	xic Air Pollutants: Listed sub	stance	
Styrene (CAS 100-4	12-5)		
US - Texas Effects Scr	eening Levels: Listed substar	nce	
	ım salt (1:1) (CAS 471-34-1)	Listed.	
Fibrous glass (CAS		Listed.	
Styrene (CAS 100-4	iz-5) hical of High Concern to Child	Listed. Iron: Listed substance	
Styrene (CAS 100-4	-		
US. Massachusetts RT	/		
Carbonic acid calciu	Im salt (1:1) (CAS 471-34-1)		
Fibrous glass (CAS			
Styrene (CAS 100-4			
•	r and Community Right-to-Kn	now Act	
Styrene (CAS 100-4	,		
•	ker and Community Right-to-I	Know Law	
	Im salt (1:1) (CAS 471-34-1)		
Fibrous glass (CAS Styrene (CAS 100-4			
US. Rhode Island RTK	FZ 3)		
Carbonic acid calciu	ım salt (1:1) (CAS 471-34-1)		
Fibrous glass (CAS			
Styrene (CAS 100-4			
US. California Proposition	65		
WARNING: This produc information go to www.P	t can expose you to Styrene, wl	hich is known to the State of California to c	ause cancer. For more
	tion 65 - CRT: Listed date/Ca	rcinogenic substance	
Styrene (CAS 100-4		Listed: April 22, 2016	
Inventory status	0)		
•			
Country(s) or region Canada	Inventory name		On inventory (yes/no)*
	Domestic Substances List (E	,	No
Canada	Non-Domestic Substances L		Yes
United States & Puerto Rico	Toxic Substances Control A	. , .	Yes
*A "Yes" indicates that all compo	pnents of this product comply with the	ne inventory requirements administered by the g	overning country(s)

