Safety Data Sheet

GenTite RRS

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier				
Product Name	Seam Adhesive Black			
1.2 Relevant identified us	ses of the substance or mixture and uses advised against			
Relevant identified use(s)	Roof Application - Adhesive			
Use(s) advised against	I Anything other than roof application.			
1.3 Details of the supplier of the safety data sheet				
Manufacturer	1 26 Century Boulevard, Suite 205,			
	Nashville, Tennessee 37214			
	1 800-443-4272 • GenTite.com			

1.4 Emergency telephone number

Manufacturer	I	(800) 424-9300 - CHEMTREC
Manufacturer	I	(703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	 Flammable Liquids 2 - H225 Skin Irritation 2 - H315 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336 Reproductive Toxicity 2 - H361fd Specific Target Organ Toxicity Repeated Exposure 2 - H373 Hazardous to the aquatic environment Chronic 3 - H412
DSD/DPD	 Highly Flammable (F) Irritant (Xi) Harmful (Xn) Substances Toxic To Reproduction - Category 3 R11, R38, R48/20, R62, R63, R67, R52, R53

2.2 Label Elements

CLP

DANGER



Hazard statements Hig25 - Highly flammable liquid and vapour H33 - Gauses skin irritation H33 - Gauses skin irritation H33 - May cause drawsiness or dizziness H36116 H33 - May cause drawsiness or dizziness H36116 Precautionary statements H201 - 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 and/or hot surfaces No smoking. P23 - Keep container tightly closed. P240 - Cround and/or bord container and receiving equipment. P24 - Use explosion-proof electricably-entiliating/fighting/equipment. P242 - Use only non-sparking tools. P24 - Valan threating masses against static discharge. P240 - Cround and/or bord container and receiving equipment. P24 - Use only outdoors or in a well-wentiliating/fighting/equipment. P242 - Valan threating masses against static discharge. P24 - Valan threating threating threating threating. P241 - Valan threating threating. P273 - Noade glowes/protective containg/eye protection/face protection. P281 - Use prosonal protective equipment arequired. P230 - Call a POISON CENTER or doctor/physician if you feel unwell. P304-P30 - In Case of thre: Use appropriate media information. P304 - P31 - ID Skin (for thai): P304 - P31 - ID Skin (for thai): P304 - P31 - ID Skin (for thai): </th <th></th> <th></th>		
Prevention P201 • Obtain special instructions before use. P210 • Dotain special instructions before use. P203 • Dota handle until all safety precautions have been read and understood. P210 • Keep away from heat, sparks, open flames and/or hot surfaces. • No smoking. P203 • Keep container tightly closed. P203 • Keep container in the closing equipment. P204 • Close of hom-sparking tools. P204 • Use only non-sparking tools. P203 • Take precautionary measures against static discharge. P204 • Wash thoroughly after handling. P207 • Wold release to the environment. P205 • Wold release to the environment. P200 • Wash thoroughly after handling. P204 • Wash thoroughly after handling. P207 • Wash thoroughly after handling. P205 • Wold release to the environment. P200 • Wash protective gloves/protective closhing/eye protection/face protection. P201 • Data and the antionary in the environment. P200 • Wash protective gloves/protective closhing/eye protection/face protection. P201 • Data and the environment. P200 • P201 • Data and too protective closhing/eye protection/face protection. P201 • Data and the environment. P201 • Data and too protective closhing/eye protection/face protection. P201 • Data and the environment. P201 • Data and too protective closhing dwash before reuse. P305+P303 • IF IN EYES. Rinse cautiously with water for several minutes. P303		 H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. H373 - May cause damage to organs Central Nervous System and Nervous System through prolonged or repeated exposure
P202 -Do not handle until all safety precautions have been read and understood. P210 Keep avay from heat, sparks, open flames and/or hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground and/or bond container and receiving equipment. P242 Use explosion-proof electrical/ventilating/lighting/equipment. P243 Take precautionary measures against static discharge. P260 Do not breather mist/vapours/spray. P264 Wash thoroughly after handling. P271 Use only notidors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection. P210 Use personal protective equipment as required. P304-P378 In case of fire: Use appropriate media for extinction. P304-P374 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P303 If Kin With water/shower. P332+P313 If Kin irritation persists: Get medical advice/attention. P324 Call a POISON CENTER or doctor/physician if you feel unwell. P305+P335 Fine Kopsod or concerned: Get medica	•	
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P303 - IF ON SKIN (or hair): P333 - Rinse skin with water/shower. P324 - Specific treatment, see supplemental first aid information. P321 - Specific treatment, see supplemental first aid information. P322 - Take off contaminated clothing and wash before reuse. P308+P31 - IF exposed or concerned: Get medical advice/attention. P308+P313 - IF exposed or concerned: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. Storage/Disposal P235 - Keep cool. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. DSD/DPD Risk phrases R11 - Highly flammable. R38 - Irritating to skin. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R62 - Possible risk of inamized fertility. R63 - Possible risk of harm to the unborn child. R67 - Vapours may cause drowsiness and dizziness. R53 - May cause long-term adverse effects in the aquatic environment.		 P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, sparks, open flames and/or hot surfaces No smoking. P233 - Keep container tightly closed. P240 - Ground and/or bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting/equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P281 - Use personal protective equipment as required.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Supplemental information 25-35 percent of this product consists of an ingredient of unknown toxicity. DSD/DPD Image: Constance of this product consists of an ingredient of unknown toxicity. Risk phrases R11 - Highly flammable. R38 - Irritating to skin. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child. R67 - Vapours may cause drowsiness and dizziness. R52 - Harmful to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment. S9 - Keep container in a well ventilated place S16 - Keep away from sources of ignition - No Smoking. S9 - Keep away from sources of ignition - No Smoking.	Response ₁	 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P303 - IF ON SKIN (or hair): P353 - Rinse skin with water/shower. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - IF exposed or concerned: Get medical advice/attention.
DSD/DPD Risk phrases R11 - Highly flammable. R38 - Irritating to skin. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child. R63 - Vapours may cause drowsiness and dizziness. R52 - Harmful to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment. Safety phrases S16 - Keep container in a well ventilated place S16 - Keep away from sources of ignition - No Smoking.	Storage/Disposal ₁	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of content and/or container in accordance with local, regional,
 R38 - Irritating to skin. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child. R67 - Vapours may cause drowsiness and dizziness. R52 - Harmful to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment. Safety phrases 1 S9 - Keep container in a well ventilated place S16 - Keep away from sources of ignition - No Smoking. 		25-35 percent of this product consists of an ingredient of unknown toxicity.
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	Safety phrases ₁	S9 - Keep container in a well ventilated place S16 - Keep away from sources of ignition - No Smoking.

2.3 Other Hazards	
CLP	According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
DSD/DPD	According to European Directive 1999/45/EC this preparation is considered dangerous.
United States (US) According to OSHA 29 CFR 1910	.1200 HCS
2.1 Classification of the su	bstance or mixture
OSHA HCS 2012	Flammable Liquids 2 - H225 Acute Toxicity Oral 4 - H302 Skin Irritation 2 - H315 Eye Irritation 2A - H319 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336 Reproductive Toxicity 2 - H361 Specific Target Organ Toxicity Repeated Exposure 2 - H373
2.2 Label elements	
OSHA HCS 2012	
	DANGER
Hazard statements	Highly flammable liquid and vapour - H225 Harmful if swallowed - H302 Causes skin irritation - H315 Causes serious eye irritation - H319 May cause drowsiness or dizziness - H336 Suspected of damaging fertility or the unborn child H361 May cause damage to organs Central Nervous System and Nervous System through prolonged or repeated exposure - H373
Precautionary statements	
Prevention ₁	Obtain special instructions before use P201 Do not handle until all safety precautions have been read and understood P202 Keep away from heat, sparks, open flames and/or hot surfaces No smoking P210 Keep container tightly closed P233 Ground and/or bond container and receiving equipment P240 Use explosion-proof electrical/ventilating/lighting/equipment P241 Use only non-sparking tools P242

Response |

Take precautionary measures against static discharge. - P243

In case of fire: Use appropriate media for extinction. - P370+P378

If skin irritation occurs: Get medical advice/attention. - P332+P313 Specific treatment, see supplemental first aid information. - P321 Take off contaminated clothing and wash before reuse. - P362

if present and easy to do. Continue rinsing. - P305+P351+P338 If eye irritation persists: Get medical advice/attention. - P337+P313

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340 Call a POISON CENTER or doctor/physician if you feel unwell. - P312

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

Do not eat, drink or smoke when using this product. - P270 Use only outdoors or in a well-ventilated area. - P271

Do not breathe mist/vapours/spray. - P260 Wash thoroughly after handling. - P264

IF ON SKIN (or hair): - P303

Rinse skin with water/shower. - P353

	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell P301+P312 Rinse mouth P330 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician P309+P311
Storage/Disposal ₁	Keep cool P235 Store in a well-ventilated place. Keep container tightly closed P403+P233 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations P501
Supplemental information	25-35 percent of this product consists of an ingredient of unknown toxicity.
2.3 Other hazards	
OSHA HCS 2012	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS	Flammable Liquids - B2 Other Toxic Effects - D2A Other Toxic Effects - D2B

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2.2 Label elements WHMIS

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Flammable Liquids - B2 Other Toxic Effects - D2A

Other Toxic Effects - D2B

- 2.3 Other hazards WHMIS
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

20-25 percent of this product consists of an ingredient of unknown toxicity.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	11 D50/1 C50	Classifications According to Regulation/Directive	Comments

Toluene	CAS:108-88-3 EC Number:203- 625-9 UN:UN1294	20% TO 50%	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m ³ 4 Hour(s) Skin-Rabbit LD50 • 14100 μL/kg	EU DSD/DPD: Annex I - F; R11 Repr. Cat. 3; R63 Xn; R48/20-65 R67 Xi; R38 EU CLP: Annex VI - Flam. Liq. 2, H226; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2 * H373; Skin Irrit. 2, H315; STOT SE 3, H336 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Skin Irrit. 2; Repr. 2; Acute Tox. 4 (oral); STOT SE 3: Narc.; Asp. Tox. 1	NDA
Xylene	CAS:1330-20-7 EC Number:215- 535-7 UN:UN1307	2.5% TO 10%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	EU DSD/DPD: Annex I - R10 Xn; R20/21 Xi; R38 EU CLP: Annex VI - Flam. Liq. 3, H226; Acute Tox. 4 * H312; Acute Tox. 4 * H332; Skin Irrit. 2 , H315 OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (skin); Eye Irrit. 2A; Skin Irrit; 2, Repr. 2 (inhalation)	NDA
Hexane	CAS:110-54-3 EC Number:203- 777-6	5% TO 20%	Ingestion/Oral-Rat LD50 • 25 g/kg Inhalation-Rat LC50 • 48000 ppm 4 Hour(s)	EU DSD/DPD: Annex I - F; R11; Repr. 3; R62; Xn; R65-48/20; Xi; R38; R67; N; R51-53 EU CLP: Annex VI - Flam. Liq. 2, H225; Repr. 2, H361f; Asp. Tox. 1, H304; STOT RE 2*, H373; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 2; Repr. 2; STOT RE 2 - CNS & Nervous System; Skin Irrit. 2; Eye Irrit. 2B; STOT SE 3: Narc. & Resp. Irrit.; Asp. Tox. 1	NDA
Hexamethylene diisocyanate homopolymer	CAS:28182-81- 2 EC Number:	< 2.5%	Inhalation-Rat LC50 • 18500 mg/m³ 1 Hour (s)	EU DSD/DPD: Self Classified - Xi, R36/38 EU CLP: Self Classified - Eye Irrit. 2A, Skin Irrit 2 OSHA HCS 2012: Eye Irrit. 2A, Skin Irrit 2	NDA
lsobutylene-Isoprene polymer	CAS:9010-85-9	20% TO 30%	NDA	EU DSD/DPD: Data Lacking EU CLP: Data Lacking OSHA HCS 2012: Data Lacking	NDA

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation	F INHALED: Remove victim to fresh air and keep at rest in a position comfortabl preathing. Administer oxygen if breathing is difficult. Give artificial respiration if vi s not breathing. Get medical attention immediately if symptoms occur.			
Skin	Rinse skin with rubbing alcohol first, followed immediately by washing affected a with soap and water. Remove and isolate contaminated clothing and shoes. If sk rritation occurs: Get medical advice/attention.			
Еуе	n case of contact with substance, immediately flush eyes with running water for east 20 minutes. If eye irritation persists: Get medical advice/attention.	at		
Ingestion	f swallowed, rinse mouth with water (only if the person is conscious) Do NOT incomiting. Do not give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur.			
4.2 Most important symptoms and effects, both acute and delayed				
	Refer to Section 11 - Toxicological Information.			
4.3 Indication of any immediate medical attention and special treatment needed				
Notes to Physician	All treatments should be based on observed signs and symptoms of distress in t	the		

o Physician	All treatments should be based on observed signs and symptoms of distress in the
-	patient. Consideration should be given to the possibility that overexposure to materials
	other than this product may have occurred.

5.1 Extinguishing media		
Suitable Extinguishing Media		RGE FIRE: Water spray, fog or regular foam. IALL FIRES: Dry chemical, CO2, water spray or regular foam.
Unsuitable Extinguishing Media	No	data available.
5.2 Special hazards arisin	g fro	om the substance or mixture
Unusual Fire and Explosion Hazards		at builds up pressure in closed containers. Cool with water stream. kic fumes and vapors may be produced.
Hazardous Combustion Products	Car	rbon dioxide, carbon monoxide, acrid smoke, irritating fumes.
5.3 Advice for firefighters		
	ONI pos Wea Wea mar Rur	uctural firefighters' protective clothing provides limited protection in fire situations ILY; it is not effective in spill situations where direct contact with the substance is saible. ear positive pressure self-contained breathing apparatus (SCBA). ear chemical protective clothing that is specifically recommended by the nufacturer. It may provide little or no thermal protection. noff from fire control may cause pollution. RGE FIRES: Dike fire-control water for later disposal.

Section 6 - Accidental Release Measures					
6.1 Personal precautions, protective equipment and emergency procedures					
Personal Precautions	CAUTION: Victim may be a source of contamination. Do not touch or walk through spilled material.				
Emergency Procedures	As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.				
6.2 Environmental precautions					
	Prevent entry into waterways, sewers, basements or confined areas.				
6.3 Methods and mater	rial for containment and cleaning up				
Containment/Clean-up Measures	 Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal. LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces. 				
6.4 Reference to other	sections				

I	Refer to Section 8 - Exposure Controls/Personal Protection and Section 1	3 - Disposal
	Considerations.	

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

Do not use in areas without adequate ventilation. Handle and open container with care. Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep away from fire. Store in a well-ventilated place. Keep container tightly closed.

- 7.3 Specific end use(s)
- Refer to Section 1.2 Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

				Expos	sure Limits	s/Guideline	s		
	Resu	ult	ACGIH	Canad	da Ontario	Canada Q	uebec	China	Europe
Xylene (1330-20-7)		.s 150 j	150 ppm STEL		STEL	150 ppm STEV; 651 mg/m3 STEV		100 mg/m3 STEL	Not established
		.s 100	100 ppm TWA		100 ppm TWA		100 ppm TWAEV; 434 mg/m3 TWAEV		Not established
Hexane	TWA	.s 50 p	om TWA	50 ppm TWA		50 ppm TWAEV; 176 mg/m3 TWAEV		100 mg/m3 TWA	20 ppm TWA; 72 mg/m3 TWA
(110-54-3)	STEL	s Not e	established	Not estat	olished	Not establish	ed	180 mg/m3 STEL	Not established
Toluene	STEL	.s Not e	established	Not established		Not established		100 mg/m3 STEL	100 ppm STEL; 384 mg/m3 STEL
(108-88-3)	TWA	.s 20 p	pm TWA 20 pp		™A	50 ppm TWA mg/m3 TWAE		50 mg/m3 TWA	50 ppm TWA; 192 mg/m3 TWA
			E	kposure	Limits/Gu	idelines (Co	on't.)		
	F	Result	Germany DI		Germany		1	NIOSH	OSHA
Xylene (1330-20-7)	г	ſWAs	WAs Not established		100 ppm TW (all isomers, factor 2); 440 TWA AGW (isomers, exp factor 2)	exposure 0 mg/m3 all Not esta		blished	100 ppm TWA; 435 mg/m3 TWA
	C	Ceilings	200 ppm Peak (al isomers); 880 mg Peak (all isomers	ı/m3	Not established Not e	Not esta	blished	Not established	
		ЛАKs	100 ppm TWA MAK; 440 mg/m3 TWA MAK		Not established Not established		Not esta	blished	Not established
Hexane	Т	ſWAs	Not established		50 ppm TWA (exposure fa 180 mg/m3 T (exposure fa	actor 8); FWA AGW	50 ppm ⁻ mg/m3 T	TWA; 180 WA	500 ppm TWA; 1800 mg/m3 TWA
⁽¹¹⁰⁻⁵⁴⁻³⁾ C		Ceilings	400 ppm Peak; 1- mg/m3 Peak	Not established		ned	Not established		Not established
		ЛАKs	50 ppm TWA MA mg/m3 TWA MAł			ned	Not established		Not established
	C	Ceilings	200 ppm Peak; 7 mg/m3 Peak	60	Not establish	ned	Not esta	blished	300 ppm Ceiling
					50 ppm TWA (The risk of c the embryo o can be exclu AGW and BC are observed	damage to or fetus uded when GW values			

Toluene (108-88-3)	TWAs	Not established	· /·	100 ppm TWA; 375 mg/m3 TWA	200 ppm TWA
	STELs	Not established	Not established	150 ppm STEL; 560 mg/m3 STEL	Not established
	MAKs	50 ppm TWA MAK; 190 mg/m3 TWA MAK	Not established	Not established	Not established

Exposure Control Notations

Germany TRGS

•Toluene (108-88-3): Skin: (skin notation)

•Xylene (1330-20-7): Skin: (skin notation (all isomers))

Germany DFG

•Toluene (108-88-3): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to) | Skin: (skin notation)

- •Xylene (1330-20-7): Pregnancy: (classification not yet possible (all isomers)) | Skin: (skin notation (all isomers))
- •Hexane (110-54-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

8.2 Exposure controls

Engineering Measures/Controls	I	This adhesive is designed to be used outdoors, in roofing applications. Good general ventilation 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.
Personal Protective Equipme	ent	
Respiratory	I	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
Eye/Face	I	Wear protective eyewear (goggles, face shield, or safety glasses).
Skin/Body	I	Wear appropriate gloves.
Environmental Exposure Controls	Ι	In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Liquid	Appearance/Description	Black viscous liquid with aromatic odor.
Black	Odor	Aromatic
Data lacking		
217 F(102.7778 C)	Melting Point	Data lacking
Data lacking	Heat of Decomposition	Data lacking
Data lacking	Specific Gravity/Relative Density	0.86 Water=1
Negligible < 0.1 %	Viscosity	Not relevant
Explosion hazard.	Oxidizing Properties:	Static hazard.
120 mmHg (torr) @ 20 C(68 F)	Vapor Density	> 3.7 Air=1
	Black Data lacking 217 F(102.7778 C) Data lacking Data lacking Negligible < 0.1 % Explosion hazard.	Black Odor Data lacking 217 F(102.7778 C) Melting Point Data lacking Data lacking Data lacking Specific Gravity/Relative Density Negligible < 0.1 %

Evaporation Rate	1.9 to 9.5 n-Butyl Acetate = 1	Volatiles (Wt.)	71.4 %
Flammability		•	
Flash Point	1 F(-17.2222 C) TCC (Tagliabue Closed Cup)	UEL	7.4 %
LEL	1.2 %	Autoignition	Product is not self-igniting.
Flammability (solid, gas)	Not relevant.		
Environmental		·	· · · · · · · · · · · · · · · · · · ·
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

1 No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity				
10.1 Reactivity				
1	No dangerous reaction known under conditions of normal use.			
10.2 Chemical stability				
-	Stable under normal temperatures and pressures.			
10.3 Possibility of hazardous reactions				
-	Hazardous polymerization will not occur.			
10.4 Conditions to avoid				
I	Avoid flames, sparks, and other sources of ignition. Avoid contact with combustible materials. Avoid contact with incompatible materials.			
10.5 Incompatible materials				
1	Acids, bases, combustible materials, oxidizing materials.			
10.6 Hazardous decomposition products				
	Thermal decomposition could produce CO, CO2, and Oxides of Nitrogen.			

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	Components						
Toluene (20% TO 50%)	108- 88-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m ³ 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg; Irritation: Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 800 mg/m ³ 6 Hour(s)(14-20D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Newborn:Behavioral					
Xylene (2.5% TO 10%)	1330- 20-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; <i>Liver</i> :Other changes; <i>Kidney, Ureter, and Bladder</i> :Other changes; Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Skin-Rabbit LD50 • >1700 mg/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 50 mg/m ³ 6 Hour(s)(1-21D preg); <i>Reproductive Effects:Specific Developmental Abnormalities</i> :Other developmental abnormalities; <i>Reproductive Effects:Effects on Newborn</i> :Growth statistics (e.g., reduced weight gain)					
Hexane (5% TO 20%)	110- 54-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 25 g/kg; Inhalation-Rat LC50 • 48000 ppm 4 Hour(s); Irritation: Eye-Rabbit • 10 mg • Mild irritation; Reproductive: Inhalation-Rat TCLo • 5000 ppm (6-19D preg); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Specific Developmental Abnormalities:Urogenital					

system

GHS Properties			Classification		
Acute toxicity			EU/CLP • Classification criteria not met OSHA HCS 2012 • Acute Toxicity - Oral 4		
Aspiration Hazard			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Carcinogenicity			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Germ Cell Mutagenicity			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Skin corrosion/Irritation			EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2		
Skin sensitization			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
STOT-RE			EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2		
STOT-SE			EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects		
Toxicity for Reproduction			EU/CLP • H361d - Suspected of damaging the unborn child; H361f - Suspected of damaging fertility; Toxic to Reproduction 2 OSHA HCS 2012 • Toxic to Reproduction 2		
Respiratory sensitization			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Serious eye damage/Irritation			EU/CLP • Classification criteria not met OSHA HCS 2012 • Eye Irritation 2A		
Route(s) of entry/exposure Potential Health Effects Inhalation	I	Skin, Eye			
Acute (Immediate)	Ι	dizziness, dro	ful. May affect the central nervous system. Symptoms may include owsiness, lethargy, coma and death.		
Chronic (Delayed) Skin	I	ivehearen au	d prolonged expousre may cause Central Nervous System (CNS) effects.		
Acute (Immediate)		Causes skin	irritation		
		No data avail			
Eye	I				
Acute (Immediate)		Causes serio	us eye irritation.		
		No data avail			
Ingestion	·				
Acute (Immediate)	I	May be harm	ful.		
		-			
Chronic (Delayed)	1	No data avail	able.		

Section 12 - Ecological Information			
12.1 Toxicity			
	This material may be toxic to aquatic organisms and cause long-term adverse effects in the aquatic environment.		
12.2 Persistence and deg	ıradability		
-	No information available for the product.		
12.3 Bioaccumulative pot	tential		
•	No information available for the product.		
12.4 Mobility in Soil			
-	No information available for the product.		
12.5 Results of PBT and	vPvB assessment		
	PBT and vPvB assessment has not been carried out.		

12.6 Other adverse effects

1 No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

 Product waste
 I
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

 Packaging waste
 I
 Dispose of content and/or container in accordance with local, regional, national, and/or

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1133	Adhesives	3		NDA
TDG	UN1133	ADHESIVES	3	II	NDA
IMO/IMDG	UN1133	ADHESIVES	3	II	NDA
ADN	UN1133	ADHESIVES	3	II	NDA
ADR/RID	UN1133	Adhesives	3		NDA
ΙΑΤΑ/ΙCΑΟ	UN1133	Adhesives	3	ll	NDA

14.6 Special precautions for
userNone known.14.7 Transport in bulk
according to Annex II of
MARPOL 73/78 and the IBC
CodeNot relevant.14.8 Other informationNot relevant.

DOT | Toluene has a reportable quantity of 1000 lbs (454 kg) as listed in Appendix A to 49 CFR 172.101. Xylene has a reportable quantity of 1000 lbs (454 kg) as listed in Appendix A to 49 CFR 172.101. Hexane has a reportable quantity of 5000 lbs (2270 kg) as listed in Appendix A to 49 CFR 172.101.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications | Acute, Chronic, Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Hexamethylene diisocyanate homopolymer	28182-81-2	No	No	No
Hexane	110-54-3	Yes	Yes	Yes
Isobutylene- Isoprene polymer	9010-85-9	No	No	No
Toluene	108-88-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes

			Inventory			
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Hexamethylene diisocyanate homopolymer	28182-81-2	Yes	No	No	No	Yes
Hexane	110-54-3	Yes	No	Yes	No	Yes
Isobutylene- Isoprene polymer	9010-85-9	Yes	No	No	No	Yes
Toluene	108-88-3	Yes	No	Yes	No	Yes
Xylene	1330-20-7	Yes	No	Yes	No	Yes

Australia

abor Australia - Work Health and Safety Regulations - Hazardous Su	bstances Requiring Health Monito	oring
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
Australia - High Volume Industrial Chemicals List		
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
Toluene	108-88-3	
• Xylene	1330-20-7	
• Hexane	110-54-3	
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
Australia - List of Designated Hazardous Substances - Classifi	cation	
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
• Toluene	108-88-3	F, Xn, Xi Repr.Cat.3 R11, R63 R48/20, R65, R38, R67
• Xylene	1330-20-7	Xn, Xi R10, R20/21, R38
		F, Xn, Xi, N Repr.Cat.3 R11,
• Hexane	110-54-3	R62, R48/20, R65, R38, R67,

Environment

• Hexamethylene diisocyanate homopolymer

R51, R53 28182-81-2 Not Listed

Australia - National Pollutant Inventory (NPI) Substance List		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	10 tonne/yr Threshold category 1
• Xylene	1330-20-7	10 tonne/yr Threshold category 1 (including individual or mixed isomers)
• Hexane	110-54-3	10 tonne/yr Threshold category 1
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
Australia - Ozone Protection Act - Scheduled Substances		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
Australia - Priority Existing Chemical Program		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Candidate chemical
• Xylene	1330-20-7	Candidate chemical
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed

Bulgaria

Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Toluene	108-88-3	0.25 mg/m3 MAHCL
• Xylene	1330-20-7	0.1 mg/m3 MAHCL
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
Bulgaria - Air Quality - Maximum Admissible Hazardous Conta	minant Levels - 30 Minute	
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	60.0 mg/m3 MAHCL
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
Bulgaria - Air Quality - Maximum Admissible Hazardous Conta	minant Levels - Annual	
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
Hexane	110-54-3	Not Listed
 Hexamethylene diisocyanate homopolymer 	28182-81-2	Not Listed

Canada

9010-85-9	Not Listed
	Priority Substance List 1
108-88-3	(substance not considered toxic)
	Priority Substance List 1
1330-20-7	(substance not considered toxic)
110-54-3	Not Listed
28182-81-2	Not Listed
	108-88-3 1330-20-7 110-54-3

Europe

her EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
• Xylene	1330-20-7	R10 Xn; R20/21 Xi; R38
• Hexane	110-54-3	F; R11 Xi; R38 N; R51-53 Repr.Cat.3; R62 Xn; R65-48/2 R67
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	12.5%<=C: Xn; R20/21
• Hexane	110-54-3	5%<=C: Xn; R48/20
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	F Xn R:11-38-48/20-63-65-6 S:(2)-36/37-46-62
• Xylene	1330-20-7	Xn R:10-20/21-38 S:(2)-25
• Hexane	110-54-3	F Xn N R:11-38-48/20-62-65 67-51/53 S:(2)-9-16-29-33- 36/37-61-62
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	С
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	S:(2)-36/37-46-62
• Xylene	1330-20-7	S:(2)-25
• Hexane	110-54-3	S:(2)-9-16-29-33-36/37-61-0
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed

Mexico

Mexico - Hazard Classifications		
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
Toluene	108-88-3	Hazard Class = 3 PG = II UN1294
• Xylene	1330-20-7	Hazard Class = 3 PG = II UN1307; Hazard Class = 3 P = III UN1307
• Hexane	110-54-3	Not Listed
 Hexamethylene diisocyanate homopolymer 	28182-81-2	Not Listed
Mexico - Regulated Substances		
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
• Toluene	108-88-3	UN1294
• Xylene	1330-20-7	UN1307; UN1307
• Hexane	110-54-3	Not Listed
 Hexamethylene diisocyanate homopolymer 	28182-81-2	Not Listed

United States

_abor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed

Environment

Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	
• Xylene	1330-20-7	(isomers and mixtures)
• Hexane	110-54-3	
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
• Toluene	108-88-3	1000 lb final RQ; 454 kg final RQ
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
• Hexane	110-54-3	5000 lb final RQ; 2270 kg final RQ
 Hexamethylene diisocyanate homopolymer 	28182-81-2	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	1.0 % de minimis concentration
• Xylene	1330-20-7	1.0 % de minimis concentration
• Hexane	110-54-3	1.0 % de minimis concentration
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - A	Appendix VIII to	40 CFR 261
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Toluene	108-88-3	waste number U220
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed

United States - California

U.S California - Proposition 65 - Carcinogens List		
 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
Toluene	108-88-3	Not Listed
Xylene	1330-20-7	Not Listed
Hexane	110-54-3	Not Listed
Hexamethylene diisocyanate homopolymer	28182-81-2	Not Listed
J.S California - Proposition 65 - Developmental Toxicity		
	9010-85-9	Not Listed
Isobutylene-Isoprene polymer	9010-85-9 108-88-3	
Isobutylene-Isoprene polymer Toluene		developmental toxicity, initia
 U.S California - Proposition 65 - Developmental Toxicity Isobutylene-Isoprene polymer Toluene Xylene Hexane 	108-88-3	developmental toxicity, initia date 1/1/91

U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	7000 μg/day MADL (level represents absorbed dose)
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
 Hexamethylene diisocyanate homopolymer 	28182-81-2	Not Listed
 U.S California - Proposition 65 - Reproductive Toxicity - Female Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female • Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Toluene	108-88-3	female reproductive toxicity, initial date 8/7/09
• Xylene	1330-20-7	Not Listed
• Hexane	110-54-3	Not Listed
 Hexamethylene diisocyanate homopolymer 		

United States - Pennsylvania

abor		
U.S Pennsylvania - RTK (Right to Know) - Environmental Haza	ard List	
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Toluene	108-88-3	
• Xylene	1330-20-7	
• Hexane	110-54-3	Not Listed
 Hexamethylene diisocyanate homopolymer 	28182-81-2	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous • Isobutylene-Isoprene polymer	Substances 9010-85-9	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous		Not Listed Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous • Isobutylene-Isoprene polymer	9010-85-9	
 U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Isobutylene-Isoprene polymer Toluene 	9010-85-9 108-88-3	Not Listed

15.2 Chemical Safety Assessment

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1 No Chemical Safety Assessment has been carried out.

Section 16 - Other Information		
Last Revision Date	Date - March 25, 2024	
Preparation Date	11/January/2012	
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Key to abbreviations		

NDA = No data available