Safety Data Sheet

GenFlex Roofing Systems

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

1.1 Product identifier

Product Name

GenSplice[™] Seam Adhesive

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)

Roof Application - Adhesive

Use(s) advised against

Anything other than roof application.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Firestone Building Products Company

250 West 96th Street Indianapolis, IN 46260

United States

genflexmsds@bfdp.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer

• (800) 424-9300 - CHEMTREC

Manufacturer

• (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to EU Directive 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 • H225 - Highly flammable liquid and vapour

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

H412 - Harmful to aquatic life with long lasting effects

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 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.

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

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.

P321 - Specific treatment, see supplemental first aid information.

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 eye irritation persists: 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

Supplemental information • 25-35 percent 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.

Safety phrases •

S9 - Keep container in a well ventilated place

S16 - Keep away from sources of ignition - No Smoking.

S37 - Wear suitable gloves.

2.3 Other Hazards

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 substance 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 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

Take precautionary measures against static discharge. - P243

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

Do not eat, drink or smoke when using this product. - P270

Use only outdoors or in a well-ventilated area. - P271

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

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340

Call a PŎISON CENTER or doctor/physician if you feel unwell. - P312

IF ON SKIN (or hair): - P303

Rinse skin with water/shower. - P353

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

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

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 . 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

2.2 Label elements

WHMIS





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	%	H D50/I C50	Classifications According to Regulation/Directive	Comments	

Toluene	CAS:108-88-3 EC 20% Number:203- 625-9 UN:UN1294		Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m³ 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
Isobutylene-Isoprene polymer CAS:9010-85-9 TO 30% NDA		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

 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately if symptoms occur.

Skin

 Rinse skin with rubbing alcohol first, followed immediately by washing affected area with soap and water. Remove and isolate contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.

Eye

 In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

 If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. 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 the
patient. Consideration should be given to the possibility that overexposure to materials
other than this product may have occurred.

Section 5 - Firefighting Measures

Format: EU CLP/REACH Language: English (US) WHMIS, EU DSD/DPD, EU CLP, OSHA HCS 2012

5.1 Extinguishing media

Suitable Extinguishing Media .

, LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

Heat builds up pressure in closed containers. Cool with water stream.
 Toxic fumes and vapors may be produced.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide, acrid smoke, irritating fumes.

5.3 Advice for firefighters

 Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically recommended by the

manufacturer. It may provide little or no thermal protection.

Runoff from fire control may cause pollution.

LARGE 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 material 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

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - 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	/Guidelines	s			
	Res	ult	ACGIH	Canad	la Ontario	Canada Q	uebec	China		Europe
Xylene STE		Ls 150	150 ppm STEL		150 ppm STEL		150 ppm STEV; 651 mg/m3 STEV			Not established
(1330-20-7)	TW	As 100	ppm TWA	100 ppm	TWA	100 ppm TW/ mg/m3 TWAE		50 mg/m3 TWA		Not established
Hexane	TW	As 50 p	pm TWA	50 ppm T	™A	50 ppm TWAI mg/m3 TWAE		100 mg/m3 TWA		20 ppm TWA; 72 mg/m3 TWA
(110-54-3)	STE	Ls Not	established	Not estat	olished	Not establish	ed	180 mg/m3 STEL		Not established
Toluene	STE	Ls Not	established	Not estat	olished	Not establishe	ed	100 mg/m3 STEL		100 ppm STEL; 384 mg/m3 STEL
(108-88-3)	TW	As 20 p	pm TWA	20 ppm T	20 ppm TWA		50 ppm TWAEV; 188 mg/m3 TWAEV			50 ppm TWA; 192 mg/m3 TWA
			Ex	cposure	Limits/Gu	idelines (Co	on't.)			
		Result	Germany D	FG	Germany	/ TRGS		NIOSH		OSHA
Xylene		TWAs	VAs Not established		100 ppm TWA AGW (all isomers, exposure factor 2); 440 mg/m3 TWA AGW (all isomers, exposure factor 2)		Not established		100 ppm TWA; 435 mg/m3 TWA	
(1330-20-7)		Ceilings	200 ppm Peak (all isomers); 880 mg/ Peak (all isomers)		Not established		Not established		Not established	
		MAKs	100 ppm TWA M 440 mg/m3 TWA				Not established		Not established	
		TWAs	Not established		50 ppm TWA AGW (exposure factor 8); 180 mg/m3 TWA AGW (exposure factor 8)		50 ppm mg/m3 T	TWA; 180 WA		ppm TWA; 1800 m3 TWA
Hexane (110-54-3)		Ceilings	400 ppm Peak; 1- mg/m3 Peak	440			Not established		Not established	
		MAKs	50 ppm TWA MA mg/m3 TWA MAk		Not established		Not established		Not established	
		Ceilings	200 ppm Peak; 7 mg/m3 Peak	60	Not establish	ned	Not established		300	ppm Ceiling
					50 ppm TWA (The risk of of the embryo of can be excluded AGW and Bod are observed	damage to or fetus uded when GW values				

Toluene (108-88-3)	TWAs	Not established	exposure factor 4); 190 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)	100 ppm TWA; 375 mg/m3 TWA	200 ppm TWA
	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) | **Skin:** (skin notation (all isomers))

Germany DFG

•Toluene (108-88-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Pregnancy:** (classification not yet possible (all isomers)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation) | **Skin:** (skin notation) (all isomers))

8.2 Exposure controls

Engineering Measures/Controls

 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 Equipment

Respiratory

 Wear a NIOSH (or equivalent) certified respirator if exposure levels cannot be controlled below applicable exposure limits.

Eye/Face

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Hands

• Wear appropriate chemical resistant gloves (neoprene, nitrile, polyvinyl alcohol (PVA)).

Skin/Body

Wear appropriate chemical resistant clothing.

Environmental Exposure Controls

Avoid release to the environment.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Black viscous liquid with aromatic odor.
Color	Black	Odor	Aromatic
Odor Threshold	Data lacking		
General Properties	-	•	
Boiling Point	217 F(102.7778 C)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
рН	Data lacking	Specific Gravity/Relative Density	0.86 Water=1
Water Solubility	Negligible < 0.1 %	Viscosity	Not relevant
Explosive Properties	Explosion hazard.	Oxidizing Properties:	Static hazard.
Volatility	-	-	
Vapor Pressure	120 mmHg (torr) @ 20 C(68 F)	Vapor Density	> 3.7 Air=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

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

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

 Avoid flames, sparks, and other sources of ignition. Avoid contact with combustible materials. Avoid contact with incompatible materials.

10.5 Incompatible materials

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

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Acute Toxicity 4 (Ingestion/Oral) - ATEmix(oral)=967.7 mg/kg
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 • 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

Skin, Eye, Ingestion/Oral

Potential Health Effects Inhalation

Acute (Immediate)

 May be harmful. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

Repeated and prolonged expousre may cause Central Nervous System (CNS) effects.

Skin

Acute (Immediate)

Causes skin irritation.

Chronic (Delayed)

No data available.

Eye

Acute (Immediate)

Causes serious eye irritation.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate)

May be harmful.

Chronic (Delayed)

No data available.

Reproductive Effects

Repeated and prolonged exposure may cause reproductive effects.

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 degradability

No information available for the product.

12.3 Bioaccumulative potential

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

No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

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

Packaging waste

 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	II	NDA
IATA/ICAO	UN1133	Adhesives	3	II	NDA

14.6 Special precautions for user

None known.

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

Not relevant.

14.8 Other information

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				
Toluene	108-88-3	Yes	Yes	Yes				
Xylene	1330-20-7	Yes	Yes	Yes				
Hexane	110-54-3	Yes	Yes	Yes				
Hexamethylene diisocyanate homopolymer	28182-81-2	No	No	No				
Isobutylene- Isoprene polymer	9010-85-9	No	No	No				

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Toluene	108-88-3	Yes	No	Yes	Yes	No

Xylene	1330-20-7	Yes	No	Yes	Yes	No		
Hexane	110-54-3	Yes	No	Yes	Yes	No		
Hexamethylene diisocyanate homopolymer	28182-81-2	Yes	No	Yes	No	No		
Isobutylene- Isoprene polymer	9010-85-9	Yes	No	Yes	No	No		
	(0.16)							

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	
Toluene	108-88-3	Yes	Yes	
Xylene	1330-20-7	Yes	Yes	
Hexane	110-54-3	Yes	Yes	
Hexamethylene diisocyanate homopolymer	28182-81-2	Yes	Yes	
Isobutylene- Isoprene polymer	9010-85-9	Yes	Yes	

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

Isobutylene-Isoprene polymer
 Toluene
 Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 101-85-9
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

Australia - High Volume Industrial Chemicals List

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

Toluene 108-88-3Xylene 1330-20-7Hexane 110-54-3

• Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

Australia - List of Designated Hazardous Substances - Classification

• 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

Hexane
 110-54-3
 F, Xn, Xi, N Repr.Cat.3 R11, R62, R48/20, R65, R38, R67, R51, R53

• Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

Environment

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
 Xylene
 108-88-3 Candidate chemical
 Candidate chemical
 Candidate chemical

Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

Isobutylene-Isoprene polymer
 Toluene
 9010-85-9
 Not Listed
 108-88-3
 0.25 mg/m3 MAHCL

• Xylene 1330-20-7 0.1 mg/m3 MAHCL
• Hexane 110-54-3 Not Listed

Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

Isobutylene-Isoprene polymer
 Toluene
 Xylene
 108-88-3
 Not Listed
 Not Listed
 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 Contaminant Levels - Annual

Canada

Labor

Canada - WHMIS - Classifications of Substances

Isobutylene-Isoprene polymer
Toluene
Xylene
Hexamethylene diisocyanate homopolymer
9010-85-9
Not Listed
B2, D2A, D2B
B2, D2A, D2B
B2, D2A, D2B
Not Listed

Canada - WHMIS - Ingredient Disclosure List

Isobutylene-Isoprene polymer
 Toluene
 Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 9010-85-9
 Not Listed
 108-88-3
 1 %
 Not Listed
 110-54-3
 28182-81-2
 Not Listed

Environment

Canada - CEPA - Priority Substances List

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

Toluene
 Xylene
 108-88-3 Priority Substance List 1 (substance not considered toxic)
 Priority Substance List 1 (substance not considered toxic)

Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed

Europe

Other

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; R65-48/20 R67

• Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

Isobutylene-Isoprene polymer
 Toluene
 9010-85-9
 Not Listed
 Not Listed

Xylene
 Hexane
 1330-20-7
 12.5%<=C: Xn; R20/21
 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:11-38-48/20-63-65-67 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
 Toluene
 Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 9010-85-9
 Not Listed
 108-88-3
 Not Listed
 Not Listed
 Not Listed
 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

Isobutylene-Isoprene polymer
 Toluene
 9010-85-9
 Not Listed
 S:(2)-36/37-46-62

• Xylene 1330-20-7 S:(2)-25

• Hexane 110-54-3 S:(2)-9-16-29-33-36/37-61-62

• Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

Mexico

Other

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 PG = III UN1307

Hexane
 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

Lal	bor
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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⁻

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

 Isobutylene-Isoprene polymer 	9010-85-9	Not Listed
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• 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

0040 05 0 Net I intend

• Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

 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 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 diisocvanate 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
 Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed
 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

Toluene
Xylene
Hexane
108-88-3
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
 Toluene
 Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 9010-85-9
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

• Toluene 108-88-3 waste number U220

Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed
 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

Toluene 108-88-3Xylene 1330-20-7

Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

Isobutylene-Isoprene polymer
 Toluene
 Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 9010-85-9
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

• Toluene 108-88-3 developmental toxicity, initial date 1/1/91

Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 330-20-7
 Not Listed
 Not Listed
 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
 Hexane
 1330-20-7
 Not Listed
 Not Listed

Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

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

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Isobutylene-Isoprene polymer 9010-85-9 Not Listed

Toluene 108-88-3Xylene 1330-20-7

Hexane
 Hexamethylene diisocyanate homopolymer
 28182-81-2
 Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Isobutylene-Isoprene polymer
 Toluene
 Xylene
 Hexane
 Hexamethylene diisocyanate homopolymer
 9010-85-9
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date

Preparation Date

Disclaimer/Statement of Liability

23/July/2013

15/December/2010

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Key to abbreviations

NDA = No data available