Safety Data Sheet GenFlex Roofing Systems

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

1.1 Product identifier

Product Name • **EPDM Bonding Adhesive**

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

Relevant identified use(s) • Adhesive

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: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

2.1 Classification of the substance or mixture

CLP • Flammable Liquids 2 - H225
Aspiration 1 - H304
Skin Irritation 2 - H315
Eye Irritation 2 - H319
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Carcinogenicity 1B - H350
Reproductive Toxicity 2 - H361d
Specific Target Organ Toxicity Repeated Exposure 2 - H373

2.2 Label Elements

CLP

DANGER

Hazard statements • H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer.

H361d - Suspected of damaging the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
  P202 - Do not handle until all safety precautions have been read and understood.
  P210 - Keep away from heat, sparks, open flames 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 and/or spray.
  P264 - Wash thoroughly after handling.
  P271 - Use only outdoors or in a well-ventilated area.
  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.
  P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
  P321 - Specific treatment, see supplemental first aid information.
  P362 - Take off contaminated clothing and wash before reuse.
  P332+P313 - If skin irritation occurs: Get medical advice/attention.
  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.
  P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  P331 - Do NOT induce vomiting.
  P308+P313 - IF exposed or concerned: Get medical advice/attention.
  P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  P235 - Keep cool.
  P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

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
  Aspiration 1
  Skin Irritation 2
  Eye Irritation 2
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Carcinogenicity 1B
  Reproductive Toxicity 2
  Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- Highly flammable liquid and vapour
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention
- Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Keep container tightly closed.
Ground and/or bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe mist, vapours and/ or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response
- In case of fire: Use appropriate media for extinction.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If on skin: Wash with plenty of water .
Specific treatment, see supplemental first aid information.
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage/Disposal
- Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information
- 25-50 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).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Toluene	**CAS:**108-88-3 **EC Number:**203-625-9 **EU Index:**601-021-00-3	25% TO 50%	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	**EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Skin Irrit. 2, H315; Repr. 2, H361d; STOT SE 3: Narc., H336; STOT RE 2, H373; Asp. Tox. 1, H304 **OSHA HCS 2012:** Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Repr. 2; STOT SE 3: Narc.; STOT RE 1 (CNS, Inhl); Asp. Tox. 1	NDA
Solvent-refined light petroleum naphtha	**CAS:**64741-84-0 **EC Number:**265-086-6 **EU Index:**649-278-00-0	25% TO 50%	NDA	**EU CLP:** Annex VI, Table 3.1: Asp. Tox. 1, H304; Carc. 1B, H350 **OSHA HCS 2012:** Asp. Tox. 1; Carc. 1B	NDA
Acetone	**CAS:**67-64-1 **EC Number:**200-662-2 **EU Index:**606-001-00-8	2.5% TO 10%	Ingestion/Oral-Rat LD50 • 5800 mg/kg Inhalation-Rat LC50 • 50100 mg/m³ 8 Hour (s)	**EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336 **OSHA HCS 2012:** Flam. Liq. 2; Eye Irrit. 2; Repr. 2 (Inhl); STOT SE 3: Narc.	NDA
Xylene	**CAS:**1330-20-7 **EC Number:**215-535-7 **EU Index:**601-022-00-9	<= 2.5%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	**EU CLP:** Annex VI, Table 3.1: 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 (Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.	NDA

See Section 16 for full text of H-statements.

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. If signs/symptoms continue, get medical attention.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. 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
- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

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

5.1 Extinguishing media

Suitable Extinguishing Media
- LARGE FIRES: Water spray, fog or alcohol-resistant foam.
  SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media
- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
  Containers may explode when heated.
  Vapor explosion hazard indoors, outdoors or in sewers.
  Many liquids are lighter than water.
  Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
  Runoff to sewer may create fire or explosion hazard.
  Vapors may form explosive mixtures with air.
  Vapors may travel to source of ignition and flash back.
  Dried solids can burn and release toxic fumes and vapors.

Hazardous Combustion Products
- No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
  Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
  Wear positive pressure self-contained breathing apparatus (SCBA).
  Move containers from fire area if you can do it without risk.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate enclosed areas. Wear appropriate protective clothing. Do not walk through spilled material.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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) Keep out of low areas. Stay upwind. Keep unauthorized personnel away.

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.
  A vapor suppressing foam may be used to reduce vapors.
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Use clean non-sparking tools to collect absorbed material.
  All equipment used when handling the product must be grounded.

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

- Keep away from heat, sparks, and flame. All equipment used when handling the product must be grounded. Bond and ground all transfer containers and equipment. Take precautionary measures against static charges. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool, dry place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	**ACGIH**	**Australia**	**Belgium**	**Canada Alberta**	**Canada British Columbia**
Acetone (67-64-1)	STELs	500 ppm STEL	1000 ppm STEL; 2375 mg/m3 STEL	1000 ppm STEL; 2420 mg/m3 STEL	750 ppm STEL; 1800 mg/m3 STEL	500 ppm STEL
	TWAs	250 ppm TWA	500 ppm TWA; 1185 mg/m3 TWA	500 ppm TWA; 1210 mg/m3 TWA	500 ppm TWA; 1200 mg/m3 TWA	250 ppm TWA
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEL; 655 mg/m3 STEL	100 ppm STEL; 442 mg/m3 STEL	150 ppm STEL; 651 mg/m3 STEL	150 ppm STEL
	TWAs	100 ppm TWA	80 ppm TWA; 350 mg/m3 TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA
Toluene (108-88-3)	STELs	Not established	150 ppm STEL; 574 mg/m3 STEL	100 ppm STEL; 384 mg/m3 STEL	Not established	Not established
	TWAs	20 ppm TWA	50 ppm TWA; 191 mg/m3 TWA	20 ppm TWA; 77 mg/m3 TWA	50 ppm TWA; 188 mg/m3 TWA	20 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Manitoba**	**Canada New Brunswick**	**Canada Northwest Territories**	**Canada Nova Scotia**	**Canada Nunavut**
Acetone (67-64-1)	STELs	500 ppm STEL	750 ppm STEL; 1782 mg/m3 STEL	750 ppm STEL	500 ppm STEL	1250 ppm STEL; 2970 mg/m3 STEL
	TWAs	250 ppm TWA	500 ppm TWA; 1188 mg/m3 TWA	500 ppm TWA	250 ppm TWA	1000 ppm TWA; 2370 mg/m3 TWA
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEL; 651 mg/m3 STEL	150 ppm STEL	150 ppm STEL	150 ppm STEL; 652 mg/m3 STEL
	TWAs	100 ppm TWA	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA; 434 mg/m3 TWA
Toluene (108-88-3)	TWAs	20 ppm TWA	50 ppm TWA; 188 mg/m3 TWA	50 ppm TWA	20 ppm TWA	100 ppm TWA; 375 mg/m3 TWA
	STELs	Not established	Not established	60 ppm STEL	Not established	150 ppm STEL; 560 mg/m3 STEL

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Ontario**	**Canada Quebec**	**Canada Saskatchewan**	**Canada Yukon**	**China**
Acetone (67-64-1)	STELs	750 ppm STEL	1000 ppm STEV; 2380 mg/m3 STEV	Not established	1250 ppm STEL; 3000 mg/m3 STEL	450 mg/m3 STEL
	TWAs	500 ppm TWA	500 ppm TWAEV; 1190 mg/m3 TWAEV	500 ppm TWA	1000 ppm TWA; 2400 mg/m3 TWA	300 mg/m3 TWA
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	Not established	150 ppm STEL; 650 mg/m3 STEL	100 mg/m3 STEL
	TWAs	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	100 ppm TWA	100 ppm TWA; 435 mg/m3 TWA	50 mg/m3 TWA
Toluene (108-88-3)	STELs	Not established	Not established	Not established	150 ppm STEL; 560 mg/m3 STEL	100 mg/m3 STEL
	TWAs	20 ppm TWA	50 ppm TWAEV; 188 mg/m3 TWAEV	50 ppm TWA	100 ppm TWA; 375 mg/m3 TWA	50 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Cyprus**	**Denmark**	**Europe**	**Germany DFG**	**Germany TRGS**
Acetone (67-64-1)	TWAs	500 ppm TWA; 1210 mg/m3 TWA	250 ppm TWA; 600 mg/m3 TWA	Not established	Not established	500 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 1200 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 2)
	Ceilings	Not established	Not established	Not established	1000 ppm Peak; 2400 mg/m3 Peak	Not established
	MAKs	Not established	Not established	Not established	500 ppm TWA MAK; 1200 mg/m3 TWA MAK	Not established

Xylene (1330-20-7)	TWAs	50 ppm TWA; 221 mg/m3 TWA	25 ppm TWA; 109 mg/m3 TWA	Not established	Not established	100 ppm TWA AGW (all isomers, exposure factor 2); 440 mg/m3 TWA AGW (all isomers, exposure factor 2)
	STELs	100 ppm STEL; 442 mg/m3 STEL	Not established	Not established	Not established	Not established
	Ceilings	Not established	Not established	Not established	200 ppm Peak (all isomers); 880 mg/m3 Peak (all isomers)	Not established
	MAKs	Not established	Not established	Not established	100 ppm TWA MAK (all isomers); 440 mg/m3 TWA MAK (all isomers)	Not established
Toluene (108-88-3)	STELs	100 ppm STEL; 384 mg/m3 STEL	Not established	100 ppm STEL; 384 mg/m3 STEL	Not established	Not established
	TWAs	50 ppm TWA; 192 mg/m3 TWA	25 ppm TWA; 94 mg/m3 TWA	50 ppm TWA; 192 mg/m3 TWA	Not established	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, 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)
	Ceilings	Not established	Not established	Not established	200 ppm Peak; 760 mg/m3 Peak	Not established
	MAKs	Not established	Not established	Not established	50 ppm TWA MAK; 190 mg/m3 TWA MAK	Not established

Exposure Limits/Guidelines (Con't.)

	Result	NIOSH	OSHA
Acetone (67-64-1)	TWAs	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
Xylene (1330-20-7)	TWAs	Not established	100 ppm TWA; 435 mg/m3 TWA
Toluene (108-88-3)	Ceilings	Not established	300 ppm Ceiling
	TWAs	100 ppm TWA; 375 mg/m3 TWA	200 ppm TWA
	STELs	150 ppm STEL; 560 mg/m3 STEL	Not established

Exposure Control Notations

China

- Toluene (108-88-3): **Skin:** (Skin notation)

Canada Quebec

- Toluene (108-88-3): **Skin:** (Skin designation)

Cyprus

- Toluene (108-88-3): **Skin:** (Skin-potential for cutaneous absorption)
- Acetone (67-64-1): **Skin:** (Skin-potential for cutaneous absorption)

•Xylene (1330-20-7): **Skin:** (Skin-potential for cutaneous absorption)

ACGIH

•Toluene (108-88-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

•Acetone (67-64-1): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

•Xylene (1330-20-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

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)

•Acetone (67-64-1): **Pregnancy:** (risk to embryo/fetus probable by exposure at exposure limit level)

•Xylene (1330-20-7): **Pregnancy:** (classification not yet possible (all isomers)) | **Skin:** (skin notation (all isomers))

Exposure Limits Supplemental

ACGIH

•Toluene (108-88-3): **BEIs:** (0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)) | **TLV Basis - Critical Effects:** (female reproductive; pregnancy loss; visual impairment)

•Acetone (67-64-1): **BEIs:** (25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

•Xylene (1330-20-7): **BEIs:** (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

8.2 Exposure controls

Engineering Measures/Controls

- This material 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. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 certified respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear splash goggles.

Skin/Body

- Wear clothing and footwear that cannot be penetrated by chemicals or oil.

Environmental Exposure Controls

- 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.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

BEI = Biological Exposure Indices

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

TWAEV = Time-Weighted Average Exposure Value

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Yellow liquid with characteristic odor.

Color	Yellow	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	56 °C(132.8 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 0.844 Water=1	Water Solubility	Not miscible or difficult to mix
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	175 mmHg (torr) @ 20 °C(68 °F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	-18 °C(-0.4 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
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, or other sources of ignition.

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- Oxides of carbons and nitrogen; trace of HCL under burning conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
		Acute Toxicity: Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s); Inhalation-Human TCLo • 1500 mg/m³ 8 Hour(s); *Sense Organs and Special Senses:Eye*:**Lacrimation**; *Sense Organs and Special Senses:Eye*:**Conjunctive irritation**; *Behavioral*:**Ataxia**; Inhalation-Human TCLo • 200 ppm; *Brain and Coverings*:**Recordings from specific areas of CNS**; *Behavioral*:**Antipsychotic**; *Blood*:**Changes in bone marrow not included above**; Inhalation-Man TCLo • 50 ppm; *Kidney, Ureter, and Bladder*:**Other changes in urine composition**; Skin-Rabbit LD50 • 14100 µL/kg; **Multi-dose Toxicity:** Inhalation-Mouse TCLo • 250 ppm 4 Day(s)-Continuous; *Behavioral*:**Convulsions or effect on**

Toluene (25% TO 50%)	108-88-3	**seizure threshold**; *Behavioral*:**Abuse**; Inhalation-Mouse TCLo • 50 ppm 12 Week(s)-Intermittent; *Brain and Coverings*:**Other degenerative changes**; Inhalation-Rat TCLo • 10 ppm 6 Hour(s) 13 Week(s)-Intermittent; *Brain and Coverings*:**Other degenerative changes**; *Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels*:**Multiple enzyme effects**; **Mutagen:** Micronucleus test • Ingestion/Oral-Mouse • 200 mg/kg; Sister chromatid exchange • Inhalation-Human • 252 µg/L 19 Year(s); Cytogenetic analysis • Inhalation-Rat • 5400 µg/m³ 16 Week(s)-Intermittent; **Reproductive:** Inhalation-Mouse TCLo • 500 mg/m³ 24 Hour(s)(6-13D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; Inhalation-Mouse TCLo • 200 ppm 7 Hour(s)(7-16D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Urogenital system**
Acetone (2.5% TO 10%)	67-64-1	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 5800 mg/kg; Inhalation-Rat LC50 • 50100 mg/m³ 8 Hour(s); Skin-Guinea Pig LD50 • >9400 µL/kg; **Irritation:** Eye-Rabbit • 20 mg • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; **Mutagen:** Sex chromosome loss & nondisjunction • Inhalation-Mouse • 12 g/L; Cytogenetic analysis • Unreported Route-Hamster • Fibroblast (Somatic cell) • 40 g/L; **Reproductive:** Inhalation-Mouse TCLo • 6600 ppm (6-17D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; Inhalation-Rat TCLo • 11000 ppm (6-19D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Other developmental abnormalities**; Inhalation-Rat TCLo • 30 mg/m³ (1-13D preg); *Reproductive Effects:Effects on Fertility*:**Pre-implantation mortality**; *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetal death**
Xylene (<= 2.5%)	1330-20-7	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 4300 mg/kg; *Liver*:**Other changes**; *Kidney, Ureter, and Bladder*:**Other changes**; Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Inhalation-Man LCLo • 10000 ppm 6 Hour(s); *Behavioral*:**General anesthetic**; *Lungs, Thorax, or Respiration*:**Cyanosis**; *Blood*:**Other changes**; Inhalation-Human TCLo • 200 ppm; *Sense Organs and Special Senses:Olfaction*:**Other changes**; *Sense Organs and Special Senses:Eye*:**Conjunctive irritation**; *Lungs, Thorax, or Respiration*:**Other changes**; 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-Rabbit TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); *Reproductive Effects:Effects on Fertility*:**Abortion**; Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s)(1-21D preg); *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Specific Developmental Abnormalities*:**Craniofacial (including nose and tongue)**; Inhalation-Rat TDLo • 200 ppm 6 Hour(s)(4-20D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; *Reproductive Effects:Effects on Newborn*:**Behavioral**

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2
Serious eye damage/Irritation	**EU/CLP** • Eye Irritation 2 **OSHA HCS 2012** • Eye Irritation 2
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Aspiration Hazard	**EU/CLP** • Aspiration 1 **OSHA HCS 2012** • Aspiration 1
Carcinogenicity	**EU/CLP** • Carcinogenicity 1B **OSHA HCS 2012** • Carcinogenicity 1B
Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Toxic to Reproduction 2 **OSHA HCS 2012** • Toxic to Reproduction 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
STOT-RE	**EU/CLP** • Specific Target Organ Toxicity Repeated Exposure 2 **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 2

Potential Health Effects

Inhalation

Acute (Immediate)
- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)
- CNS depression has been reported to occur in chronic abusers exposed to high levels of toluene. Symptoms include drowsiness, ataxia, tremors, cerebral atrophy, nystagmus (involuntary eye movements), and impaired speech, hearing, and vision. Neurobehavioral effects have been observed in occupationally exposed workers.

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)
- Material may be aspirated into the lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

Chronic (Delayed)
- No data available.

Carcinogenic Effects
- Repeated and prolonged exposure may cause cancer.

Reproductive Effects
- Repeated or prolonged exposure to toluene may cause reproductive effects.

Key to abbreviations
LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

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	II	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 specified.

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

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**
Acetone	67-64-1	Yes	Yes	Yes
Solvent-refined light petroleum naphtha	64741-84-0	No	No	No
Toluene	108-88-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**	**EU ELNICS**
Acetone	67-64-1	Yes	No	Yes	Yes	No
Solvent-refined light petroleum naphtha	64741-84-0	Yes	No	Yes	Yes	No
Toluene	108-88-3	Yes	No	Yes	Yes	No

Xylene	1330-20-7	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	**CAS**	**Japan ENCS**	**Korea KECL**	**TSCA**
Acetone	67-64-1	Yes	Yes	Yes
Solvent-refined light petroleum naphtha	64741-84-0	No	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes

Australia

Labor

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Australia - High Volume Industrial Chemicals List

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	
• Toluene	108-88-3	
• Xylene	1330-20-7	

Australia - List of Designated Hazardous Substances - Classification

• Solvent-refined light petroleum naphtha	64741-84-0	Xn Carc.Cat.2, Muta.Cat.2 R45, R46, R65
• Acetone	67-64-1	F, Xi R11, R36, R66, R67
• 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

Environment

Australia - National Pollutant Inventory (NPI) Substance List

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	10 tonne/yr Threshold category 1
• 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)

Australia - Ozone Protection Act - Scheduled Substances

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Australia - Priority Existing Chemical Program

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Candidate chemical
• Xylene	1330-20-7	Candidate chemical

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Bulgaria

Environment

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	0.35 mg/m3 MAHCL
• Toluene	108-88-3	0.25 mg/m3 MAHCL
• Xylene	1330-20-7	0.1 mg/m3 MAHCL

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	0.35 mg/m3 MAHCL
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	B2, D2B
• Toluene	108-88-3	B2, D2A, D2B
• Xylene	1330-20-7	B2, D2A, D2B

Canada - WHMIS - Ingredient Disclosure List

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	1 %
• Toluene	108-88-3	1 %
• Xylene	1330-20-7	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Priority Substance List 1 (substance not considered toxic)
• Xylene	1330-20-7	Priority Substance List 1 (substance not considered toxic)

China

Other

China - Annex I & II - Controlled Chemicals Lists

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Solvents (in a wide range of products including paints, coatings and cooling lubricants, listed under Organic solvents)
• Xylene	1330-20-7	Not Listed

Europe

Other

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

• Solvent-refined light petroleum naphtha	64741-84-0	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Acetone	67-64-1	F; R11 Xi; R36 R66 R67
• 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

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	12.5%<=C: Xn; R:20/21

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

• Solvent-refined light petroleum naphtha	64741-84-0	T R:45-46-65 S:53-45
• Acetone	67-64-1	F Xi R:11-36-66-67 S:(2)-9-16-26
• 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

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Solvent-refined light petroleum naphtha	64741-84-0	P
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	C

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

• Solvent-refined light petroleum naphtha	64741-84-0	S:53-45
• Acetone	67-64-1	S:(2)-9-16-26
• Toluene	108-88-3	S:(2)-36/37-46-62
• Xylene	1330-20-7	S:(2)-25

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed

• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	ID Number 6, hazard class 1 - low hazard to waters
• Toluene	108-88-3	ID Number 194, hazard class 2 - hazard to waters
• Xylene	1330-20-7	ID Number 206, hazard class 2 - hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• Solvent-refined light petroleum naphtha	64741-84-0	ID Number 8308, hazard class 3 - severe hazard to waters
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

Environment

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	
• Xylene	1330-20-7	(isomers and mixtures)

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed

• Acetone	67-64-1	5000 lb final RQ; 2270 kg final RQ
• 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

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	1.0 % de minimis concentration
• Xylene	1330-20-7	1.0 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	
• Toluene	108-88-3	
• Xylene	1330-20-7	

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	
• Toluene	108-88-3	
• Xylene	1330-20-7	(listed under Xylenes (unspecified))

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	
• Toluene	108-88-3	

• Xylene	1330-20-7	(total)

United States - California

Environment

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	developmental toxicity, 1/1/1991
• Xylene	1330-20-7	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	7000 µg/day MADL (level represents absorbed dose)
• Xylene	1330-20-7	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

United States - Pennsylvania

Labor

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	
• Toluene	108-88-3	
• Xylene	1330-20-7	

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

• Solvent-refined light petroleum naphtha	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H226 - Flammable liquid and vapour
  H312 - Harmful in contact with skin
  H332 - Harmful if inhaled

Revision Date

- 08/April/2016

Preparation Date

- 08/April/2016

Disclaimer/Statement of Liability

- The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

Key to abbreviations

NDA = No Data Available