

## Safety Data Sheet

## Firestone Building Products Company

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

## 1.1 Product identifier

**Product Name** | EPDM Bonding Adhesive BA-2004(T)

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

**Relevant identified use(s)** | Rubber 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

firestonemsds@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]

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  
Eye Irritation 2 - H319  
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336  
Reproductive Toxicity 2 - H361d  
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, R52, R53, R63, R65, R67

## 2.2 Label Elements

**CLP**

**DANGER**



**Hazard statements** | H225 - Highly flammable liquid and vapour  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H336 - May cause drowsiness or dizziness  
 H361d - Suspected of damaging the unborn child.  
 H373 - May cause damage to organs -Central Nervous System (CNS)- 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.  
 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+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P352 - Wash with plenty of soap and water.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P363 - Wash contaminated clothing 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.  
 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.  
 P321 - Specific treatment, see supplemental first aid information.

**Storage/Disposal** | P405 - Store locked up.  
 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.

**Supplemental information** | 25-35 percent of this product consists of an ingredient of unknown toxicity.

**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.  
 R52 - Harmful to aquatic organisms.  
 R53 - May cause long-term adverse effects in the aquatic environment.  
 R63 - Possible risk of harm to the unborn child.

**Safety phrases** | R65 - Harmful: may cause lung damage if swallowed.  
 R67 - Vapours may cause drowsiness and dizziness.  
 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**

**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 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 (CNS) 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  
 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 POISON CENTER or doctor/physician if you feel unwell. - P312  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353  
 Wash with plenty of soap and water. - P352  
 If skin irritation occurs: Get medical advice/attention. - P332+P313

Wash contaminated clothing before reuse. - P363  
 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  
 Do NOT induce vomiting. - P331  
 IF exposed or concerned: Get medical advice/attention. - P308+P313  
 Get medical advice/attention if you feel unwell. - P314  
 Specific treatment, see supplemental first aid information. - P321

**Storage/Disposal** | Keep cool. - P235  
 Store in a well-ventilated place. Keep container tightly closed. - P403+P233  
 Store locked up. - P405  
 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**

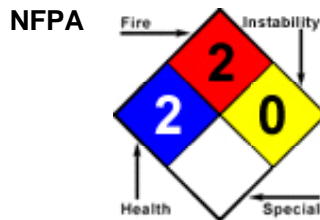


| Flammable Liquids - B2  
 Other Toxic Effects - D2A  
 Other Toxic Effects - D2B

### 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



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	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Toluene	<b>CAS:</b> 108-88-3 <b>EC Number:</b> 203-625-9 <b>UN:</b> UN1294	34% TO 44%	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m <sup>3</sup> 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	<b>EU DSD/DPD:</b> Annex I - F; R11 Repr. Cat. 3; R63 Xn; R48/20-65 Xi; R38; R67 <b>EU CLP:</b> 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 <b>OSHA HCS 2012:</b> Eye Irrit. 2A; Skin Irrit. 2; Flam. Liq. 2; Repr. 2; Acute Tox. 4 (oral); STOT SE 3: Narc.; Asp. Tox. 1	NDA
Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	<b>CAS:</b> 64741-84-0 <b>EC Number:</b> 265-086-6	25% TO 35%	NDA	<b>EU DSD/DPD:</b> Annex I - Carc. Cat. 2; R45; Muta. Cat. 2; R46; Xn; R65 <b>EU CLP:</b> Annex VI - Carc. 1B; Muta. 1B; Asp. Tox. 1 <b>OSHA HCS 2012:</b> Not Classified - Data Lacking	NDA
Polymers	NDA	11% TO 36%	NDA	<b>EU DSD/DPD:</b> Not Classified - Data Lacking <b>EU CLP:</b> Not Classified - Data Lacking <b>OSHA HCS 2012:</b> Not Classified - Data Lacking	NDA
Polychlorophene	<b>CAS:</b> 9010-98-4	< 12%	Ingestion/Oral-Rat LD50 • >40 g/kg	<b>EU DSD/DPD:</b> Not Classified - Classification criteria not met <b>EU CLP:</b> Not Classified - Classification criteria not met <b>OSHA HCS 2012:</b> Not Classified - Classification criteria not met	NDA
Acetone	<b>CAS:</b> 67-64-1 <b>EC Number:</b> 200-662-2 <b>UN:</b> UN1090	5% TO 10%	Ingestion/Oral-Rat LD50 • 5800 mg/kg Inhalation-Rat LC50 • 50100 mg/m <sup>3</sup>	<b>EU DSD/DPD:</b> Annex I - F; R11 Xi; R36; R66; R67 <b>EU CLP:</b> Annex VI - Flam. Liq. 2, H226; Eye Irrit. 2, H319; STOT SE 3, H336 <b>OSHA HCS 2012:</b> Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit. & Narc.; Repr. 2	NDA
Xylene	<b>CAS:</b> 1330-20-7 <b>EC Number:</b> 215-535-7 <b>UN:</b> UN1307	< 1%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	<b>EU DSD/DPD:</b> Annex I - R10 Xn; R20/21 Xi; R38 <b>EU CLP:</b> Annex VI - Flam. Liq. 3, H226; Acute Tox. 4 * H312; Acute Tox. 4 * H332; Skin Irrit. 2, H315 <b>OSHA HCS 2012:</b> Acute Tox. 4 (skin); Eye Irrit. 2A; Skin Irrit. 2, Repr. 2 (inhalation)	NDA
Magnesium oxide	<b>CAS:</b> 1309-48-4 <b>EC Number:</b> 215-171-9	< 1%	NDA	<b>EU DSD/DPD:</b> Self Classified - Xi; R36/37 <b>EU CLP:</b> Self Classified - Eye Irrit. 2, H319; STOT SE 3, H335 <b>OSHA HCS 2012:</b> Eye Irrit. 2; STO SE 3: Resp. Irrit.	NDA
Zinc oxide	<b>CAS:</b> 1314-13-2 <b>EC Number:</b> 215-222-5	< 0.3%	NDA	<b>EU DSD/DPD:</b> Self Classified - N; R50-53 <b>EU CLP:</b> Self Classified - Aquatic Acute 1, H400; Aquatic Chronic 1, H410 <b>OSHA HCS 2012:</b> Not Classified - Classification criteria not met	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** | In case of contact with substance, immediately flush skin with running water for at least 20 minutes. 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

### 5.1 Extinguishing media

- Suitable Extinguishing Media** | CAUTION: For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective.  
LARGE FIRES: Water spray, fog or alcohol-resistant foam.  
SMALL FIRES: Dry chemical, CO<sub>2</sub>, 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** | Containers may explode when heated.  
Vapor explosion hazard indoors, outdoors or in sewers.  
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.  
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.  
Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.  
Vapors may form explosive mixtures with air.  
Vapors may travel to source of ignition and flash back.
- Hazardous Combustion Products** | Oxides of carbon, oxides of nitrogen, hydrochloric acid.

### 5.3 Advice for firefighters

- | Structural firefighters' protective clothing will only provide limited protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).  
Move containers from fire area if you can do it without risk.  
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

## 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** | Store locked up. 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

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	Europe
Zinc oxide (1314-13-2)	STELs	10 mg/m3 STEL (respirable fraction)	10 mg/m3 STEL (respirable)	10 mg/m3 STEV (fume)	5 mg/m3 STEL	Not established
	TWAs	2 mg/m3 TWA (respirable fraction)	2 mg/m3 TWA (respirable)	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m3 TWAEV (fume)	3 mg/m3 TWA	Not established

Magnesium oxide (1309-48-4)	STELs	Not established	Not established	Not established	20 mg/m3 STEL (fume)	Not established
	TWAs	10 mg/m3 TWA (inhalable fraction)	10 mg/m3 TWA (inhalable)	10 mg/m3 TWAEV (fume, as Mg)	10 mg/m3 TWA (fume)	Not established
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	100 mg/m3 STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA	Not established
Acetone (67-64-1)	STELs	750 ppm STEL	750 ppm STEL	1000 ppm STEV; 2380 mg/m3 STEV	450 mg/m3 STEL	Not established
	TWAs	500 ppm TWA	500 ppm TWA	500 ppm TWAEV; 1190 mg/m3 TWAEV	300 mg/m3 TWA	Not established
Toluene (108-88-3)	STELs	Not established	Not established	Not established	100 mg/m3 STEL	100 ppm STEL; 384 mg/m3 STEL
	TWAs	20 ppm TWA	20 ppm TWA	50 ppm TWAEV; 188 mg/m3 TWAEV	50 mg/m3 TWA	50 ppm TWA; 192 mg/m3 TWA

**Exposure Limits/Guidelines (Con't.)**

	Result	Germany DFG	Germany TRGS	NIOSH	OSHA
Zinc oxide (1314-13-2)	TWAs	Not established	Not established	5 mg/m3 TWA (dust and fume)	5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
	Ceilings	1 mg/m3 Peak (respirable fraction, fume)	Not established	15 mg/m3 Ceiling (dust)	Not established
	STELs	Not established	Not established	10 mg/m3 STEL (fume)	Not established
	MAKs	1 mg/m3 TWA MAK (fume, respirable fraction)	Not established	Not established	Not established
Magnesium oxide (1309-48-4)	TWAs	Not established	Not established	Not established	15 mg/m3 TWA (fume, total particulate)
	MAKs	1.5 mg/m3 TWA MAK (respirable fraction); 4 mg/m3 TWA MAK (inhalable fraction)	Not established	Not established	Not established
Xylene (1330-20-7)	TWAs	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
	Ceilings	200 ppm Peak (all isomers); 880 mg/m3 Peak (all isomers)	Not established	Not established	Not established
	MAKs	100 ppm TWA MAK; 440 mg/m3 TWA MAK	Not established	Not established	Not established
Acetone	TWAs	Not established	500 ppm TWA AGW (exposure factor 2); 1200 mg/m3 TWA AGW (exposure factor 2)	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA



(67-64-1)	Ceilings	1000 ppm Peak; 2400 mg/m3 Peak	Not established	Not established	Not established
	MAKs	500 ppm TWA MAK; 1200 mg/m3 TWA MAK	Not established	Not established	Not established
Toluene (108-88-3)	Ceilings	200 ppm Peak; 760 mg/m3 Peak	Not established	Not established	300 ppm Ceiling
	TWAs	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)	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**

**China**

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

**Canada Quebec**

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

**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)
- Magnesium oxide (1309-48-4): **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:** (classification not yet possible)
- Xylene (1330-20-7): **Pregnancy:** (classification not yet possible (all isomers)) | **Skin:** (skin notation (all isomers))
- Magnesium oxide (1309-48-4): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to (respirable fraction); inhalable fraction)

**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:** (50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation; hematologic effects) | **Notice of Intended Changes (TLVs):** (200 ppm TWA; 500 ppm STEL; BEI; TLV basis: CNS impairment, 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)
- Zinc oxide (1314-13-2): **TLV Basis - Critical Effects:** (metal fume fever)

## 8.2 Exposure controls

### Engineering Measures/Controls

- | 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 Equipment

#### Respiratory

- | 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

- | Wear chemical splash safety goggles.

#### Hands

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

#### Skin/Body

- | Wear appropriate chemical resistant clothing.

### 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.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Amber to yellow liquid with strong aromatic .
Color	Amber to yellow.	Odor	Strong aromatic odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	55 to 142 C(131 to 287.6 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
pH	Data lacking	Specific Gravity/Relative Density	0.844 Water=1
Water Solubility	Insoluble	Viscosity	Not relevant
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	9.5 to 185 mmHg (torr) @ 20 C(68 F)	Vapor Density	2.4 Air=1
Evaporation Rate	1.9 to 9.5 Ether = 1	VOC (Vol.)	633 g/L
Volatiles (Vol.)	76.4 %		
Flammability			
Flash Point	-18 C(-0.4 F) TCC (Tagliabue Closed Cup)	UEL	12.8 %
LEL	1 %	Autoignition	Data lacking
Self-Accelerating Decomposition Temperature (SADT)	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, 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 oxides of carbon, oxides of nitrogen, hydrochloric acid.

**Section 11 - Toxicological Information**

**11.1 Information on toxicological effects**

Components		
Toluene (34% TO 44%)	108-88-3	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m<sup>3</sup> 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg;</p> <p><b>Irritation:</b> Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation;</p> <p><b>Reproductive:</b> Inhalation-Rat TCLo • 800 mg/m<sup>3</sup> 6 Hour(s)(14-20D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Newborn:Behavioral</i></p>
Polychlorophene (< 12%)	9010-98-4	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • &gt;40 g/kg</p>
Acetone (5% TO 10%)	67-64-1	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 5800 mg/kg; Inhalation-Rat LC50 • 50100 mg/m<sup>3</sup>;</p> <p><b>Irritation:</b> Eye-Rabbit • 20 mg • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation;</p> <p><b>Reproductive:</b> Inhalation-Rat TCLo • 30 mg/m<sup>3</sup> (1-13D preg); <i>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</i></p>
Xylene (< 1%)	1330-20-7	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 4300 mg/kg; <b>Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</b> Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Skin-Rabbit LD50 • &gt;1700 mg/kg;</p> <p><b>Irritation:</b> Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation;</p> <p><b>Reproductive:</b> Inhalation-Rat TCLo • 50 mg/m<sup>3</sup> 6 Hour(s)(1-21D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities; Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)</i></p>
Zinc oxide (< 0.3%)	1314-13-2	<p><b>Irritation:</b> Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation;</p> <p><b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 6846 mg/kg (1-22D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Homeostasis; Reproductive Effects:Effects on Newborn:Stillbirth; Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)</i></p>

GHS Properties	Classification
<b>Acute toxicity</b>	<p>EU/CLP • Classification criteria not met</p> <p>OSHA HCS 2012 • Acute Toxicity - Oral 4</p>
<b>Aspiration Hazard</b>	<p>EU/CLP • Classification criteria not met</p> <p>OSHA HCS 2012 • Classification criteria not met</p>

<b>Carcinogenicity</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Germ Cell Mutagenicity</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Skin corrosion/Irritation</b>	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
<b>Skin sensitization</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>STOT-RE</b>	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
<b>STOT-SE</b>	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
<b>Toxicity for Reproduction</b>	EU/CLP • H361d - Suspected of damaging the unborn child; Toxic to Reproduction 2 OSHA HCS 2012 • Toxic to Reproduction 2
<b>Respiratory sensitization</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Serious eye damage/Irritation</b>	EU/CLP • Eye Irritation 2 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 exposure 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**

EPDM Bonding Adhesive BA-2004(T)					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
15.22-19.05 mg/L	<b>Fish:</b> Pimephales promelas	96 Hour (s)	LC50	NDA	Toluene (108-88-3)
5.89-7.81 mg/L	<b>Fish:</b> Oncorhynchus mykiss	96 Hour (s)	LC50	NDA	Toluene (108-88-3)

2.1-2.98 mg/L	<b>Fish:</b> Pimephales promelas	96 Hour (s)	LC50	NDA	Naphtha, petroleum, solvent-refined light (Primarily Hexane) (64741-84-0)
9.74 mg/L	<b>Water Flea:</b> Daphnia magna	48 Hour (s)	EC50	NDA	Naphtha, petroleum, solvent-refined light (Primarily Hexane) (64741-84-0)
4.74-6.33 mg/L	<b>Fish:</b> Oncorhynchus mykiss	96 Hour (s)	LC50	NDA	Acetone (67-64-1)
10294-17704 mg/L	<b>Water Flea:</b> Daphnia magna	48 Hour (s)	EC50	NDA	Acetone (67-64-1)

| 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**

| No data available

**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/MDG	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. Acetone 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
Polychlorophene	9010-98-4	No	No	No
Acetone	67-64-1	Yes	Yes	Yes
Magnesium oxide	1309-48-4	Yes	Yes	Yes
Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	No	No	No
Toluene	108-88-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes
Zinc oxide	1314-13-2	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Polychlorophene	9010-98-4	Yes	No	Yes	No	No
Acetone	67-64-1	Yes	No	Yes	Yes	No
Magnesium oxide	1309-48-4	Yes	No	Yes	Yes	No
Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	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
Zinc oxide	1314-13-2	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Polychlorophene	9010-98-4	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes
Magnesium oxide	1309-48-4	Yes	Yes	Yes
Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	No	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes
Zinc oxide	1314-13-2	Yes	Yes	Yes

## Australia

**Labor**

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Australia - High Volume Industrial Chemicals List**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	
• Magnesium oxide	1309-48-4	
• Toluene	108-88-3	
• Xylene	1330-20-7	
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Australia - List of Designated Hazardous Substances - Classification**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Xn Carc.Cat.2, Muta.Cat.2 R45, R46, R65
• Acetone	67-64-1	F, Xi R11, R36, R66, R67
• Magnesium oxide	1309-48-4	Self classification required (fume)
• 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
• Zinc oxide	1314-13-2	Self classification required (dust and fume); N R50, R53
• Polychlorophene	9010-98-4	Not Listed

**Environment**

**Australia - National Pollutant Inventory (NPI) Substance List**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	10 tonne/yr Threshold category 1
• Magnesium oxide	1309-48-4	10 tonne/yr Threshold category 1 (fume); 2000 tonne/yr Threshold category 2b (fume); 60000 MWH Threshold category 2b (fume); 20 MW Threshold category 2b (fume)
• 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)
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Australia - Ozone Protection Act - Scheduled Substances**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed

• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Australia - Priority Existing Chemical Program**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Candidate chemical
• Xylene	1330-20-7	Candidate chemical
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	B2, D2B Uncontrolled product according to WHMIS classification criteria
• Magnesium oxide	1309-48-4	
• Toluene	108-88-3	B2, D2A, D2B
• Xylene	1330-20-7	B2, D2A, D2B Uncontrolled product according to WHMIS classification criteria
• Zinc oxide	1314-13-2	
• Polychlorophene	9010-98-4	Not Listed

**Canada - WHMIS - Ingredient Disclosure List**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	1 %
• Magnesium oxide	1309-48-4	1 %
• Toluene	108-88-3	1 %
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	1 %
• Polychlorophene	9010-98-4	Not Listed

**Environment**

**Canada - CEPA - Priority Substances List**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	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)
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Europe**



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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Acetone	67-64-1	F; R11 Xi; R36 R66 R67
• Magnesium oxide	1309-48-4	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
• Zinc oxide	1314-13-2	N; R50-53
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	12.5%<=C: Xn; R20/21
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	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
• Magnesium oxide	1309-48-4	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
• Zinc oxide	1314-13-2	N R:50/53 S:60-61
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	P
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	C
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	S:53-45
• Acetone	67-64-1	S:(2)-9-16-26
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	S:(2)-36/37-46-62
• Xylene	1330-20-7	S:(2)-25
• Zinc oxide	1314-13-2	S:60-61
• Polychlorophene	9010-98-4	Not Listed

**Mexico****Other****Mexico - Hazard Classifications**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
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• Acetone	67-64-1	Hazard Class = 3 PG = II UN1090
• Magnesium oxide	1309-48-4	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
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Mexico - Regulated Substances**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	UN1090
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	UN1294
• Xylene	1330-20-7	UN1307; UN1307
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**United States**

**Labor**

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**Environment**

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	
• Xylene	1330-20-7	(isomers and mixtures)
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	5000 lb final RQ; 2270 kg final RQ

• Magnesium oxide	1309-48-4	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
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	1.0 % de minimis concentration
• Xylene	1330-20-7	1.0 % de minimis concentration
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - EPA - Designated Generic Categories - Lead and Lead Compounds**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - EPA - Designated Generic Categories - Warfarin and Salts**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Included in waste stream: F039
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
• Xylene	1330-20-7	Included in waste stream: F039
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	waste number U220
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	
• Xylene	1330-20-7	
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	0.28 mg/L (wastewater); 160 mg/kg (nonwastewater)
• Magnesium oxide	1309-48-4	Not Listed

• Toluene	108-88-3	0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Xylene	1330-20-7	0.32 mg/L (wastewater); 30 mg/kg (nonwastewater)
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	
• Xylene	1330-20-7	(total)
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	waste number U002 (Ignitable waste)
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	waste number U220
• Xylene	1330-20-7	waste number U239 (Ignitable waste)
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals**

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

**United States - California**

**Environment**

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	developmental toxicity, initial date 1/1/91

• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	female reproductive toxicity, initial date 8/7/09
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

## United States - Pennsylvania

### Labor

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	
• Xylene	1330-20-7	
• Zinc oxide	1314-13-2	(fume)
• Polychlorophene	9010-98-4	Not Listed

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

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Zinc oxide	1314-13-2	Not Listed
• Polychlorophene	9010-98-4	Not Listed

## United States - Rhode Island

### Labor

#### U.S. - Rhode Island - Hazardous Substance List

• Naphtha, petroleum, solventrefinedlight (Primarily Hexane)	64741-84-0	Not Listed
• Acetone	67-64-1	Toxic; Flammable
• Magnesium oxide	1309-48-4	Toxic (fume)
• Toluene	108-88-3	Toxic (skin); Flammable (skin)
• Xylene	1330-20-7	Toxic (skin); Flammable (skin)
• Zinc oxide	1314-13-2	Toxic
• Polychlorophene	9010-98-4	Not Listed

## 15.2 Chemical Safety Assessment

- | No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### Section 16 - Other Information

**Last Revision Date** | 29/December/2014

**Preparation Date** | 07/February/2013

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**Key to abbreviations**

NDA = No data available