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

RubberCover™ Bonding Adhesive BA-2012

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

Relevant identified use(s) · Construction: 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

Supplier Firestone Building Products Europe

> Ikaroslaan 75 1930 Zaventem

Belgium

firestonemsds@bfdp.com

Telephone (General) • +32 2 711 44 50

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer (703) 527-3887 - CHEMTREC - International Supplier +1 (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

Hazardous to the aquatic environment Chronic 2 - H411

DSD/DPD Highly Flammable (F)

Irritant (Xi)

Dangerous to the Environment (N)

R11, R38, R67, R51/53

2.2 Label Elements

Preparation Date: 10/March/2016 Format: EU CLP/REACH Language: English (US) WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012 Revision Date: 10/March/2016

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

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention •

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.

P261 - Avoid breathing mist/vapours/spray. P264 - Wash thoroughly after handling.

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves and eye/face protection, .

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. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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. P321 - Specific treatment, see supplemental first aid information.

P391 - Collect spillage.

Storage/Disposal •

P233 - Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD







Risk phrases •

R11 - Highly flammable.

R38 - Irritating to skin.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 - Vapours may cause drowsiness and dizziness.

Safety phrases .

S3 - Keep in a cool place.

S9 - Keep container in a well ventilated place

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

S21 - When using do not smoke.

S23 - Do not breathe gas/fumes/vapour/spray.

S57 - Use appropriate containment to avoid environmental contamination.

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 Skin Irritation 2 Eve Irritation 2A

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

2.2 Label elements

OSHA HCS 2012

DANGER





Hazard statements •

Highly flammable liquid and vapour

Causes skin irritation
Causes serious eve irritation

May cause respirátory irritation and drowsiness or dizziness

Precautionary statements

Prevention •

· 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.

Avoid breathing mist/vapours/spray. Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/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.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment, see supplemental first aid information.

Storage/Disposal •

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

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

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 - D2B

2.2 Label elements

WHMIS





 Flammable Liquids - B2 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).

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
Naphtha (petroleum), hydrotreated light	CAS:64742-49 -0 EC Number:265- 151-9	10% TO 25%	NDA	EU DSD/DPD: Xn, R65, Xi, R38, F, R11, N, R51/53 EU CLP: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3: Narc., H336 OSHA HCS 2012: Data Lacking	NDA
Cyclohexane	CAS:110-82-7 EC Number:203- 806-2	10% TO 25%	Ingestion/Oral-Rat LD50 • 12705 mg/kg	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: F, R11; Xn, R65; Xi, R38; R67; N, R50, R53 EU CLP: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Liq. 2, Eye Irrit. 2A, Skin Irrit 2, STOT SE 3: Resp. Irrit. & Narc.	NDA
Acetic acid, propyl ester	CAS:109-60-4 EC Number:203- 686-1	2.5% TO 10%	Ingestion/Oral-Rat LD50 • 9370 mg/kg Skin-Rabbit LD50 • >20 mL/kg	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: F, R11; Xi, R36; R66; R67 EU CLP: Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Skin Irrit 2; STOT SE 3: Resp. Irrit. & Narc.	NDA
			Ingestion/Oral-Rat		

2-Butanone	CAS:78-93-3 EC Number:201- 159-0	2.5% TO 10%	LD50 • 2737 mg/kg Inhalation-Rat LC50 • 23500 mg/m³ Skin-Rabbit LD50 • 6480 mg/kg	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: F, R11; Xi, R36; R66; R67 EU CLP: Annex VI: Flam. Liq. 2., H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 OSHA HCS 2012:	NDA
Zinc, bis (dibutyldithiocarbamato)-	CAS:136-23-2 EC Number:205- 232-8	<= 2.5%	NDA	EU DSD/DPD: EU CLP, Annex VI, Table 3.2: Xi, R36/37/38; R43; N, R50, R53 EU CLP: Annex VI: Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Skin Sens. 1	NDA

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Move victim to fresh air.

Skin

In case of burns, immediately cool affected skin for as long as possible with cold water. Donot remove clothing if adhering to 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. Wash skin with soap and water.

Eye

In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.

Ingestion

Call a physician or poison control center immediately.

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 • Use CO2, dry chemical, or foam.

CAUTION: For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective.

Unsuitable Extinguishing Media

Do not use 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

orinvolved in a fire.

Vapors may form explosive mixtures with air.

Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

• Toxic gases may be formed including carbon monoxide.

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

· Keep away from fire. Keep away from heat and sparks.

7.2 Conditions for safe storage, including any incompatibilities

Storage

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

				Expos	sure Limits	s/Guideline				
	Resu	t	ACGIH	_	la Alberta	Canada B Columi	ritish	Canada Manito	ba	Canada New Brunswick
Acetic acid, propyl	STELs	250	ppm STEL	250 ppm mg/m3 S	STEL; 1040 TEL	250 ppm STEI	L	250 ppm STEL		250 ppm STEL; 1040 mg/m3 STEL
ester (109-60-4)	TWAs	200	ppm TWA	200 ppm mg/m3 T	TWA; 835 WA	200 ppm TW <i>A</i>	4	200 ppm TWA		200 ppm TWA; 835 mg/m3 TWA
2-Butanone	STELs	300	ppm STEL	300 ppm mg/m3 S	STEL; 885 TEL	100 ppm STEI	L	300 ppm STEL		300 ppm STEL; 885 mg/m3 STEL
(78-93-3)	TWAs	200	ppm TWA	200 ppm mg/m3 T	TWA; 590 WA	50 ppm TWA		200 ppm TWA		200 ppm TWA; 590 mg/m3 TWA
Cyclohexane (110-82-7)	TWAs	100	ppm TWA	100 ppm mg/m3 T	TWA; 344 WA	100 ppm TWA	4	100 ppm TWA		300 ppm TWA; 1030 mg/m3 TWA
			Ex	posure	Limits/Gu	idelines (C	on't.)			
	Resul	t Ca	nada Northwest Territories	Canada	Nova Scotia	Canada Ni	unavut	Canada Ontar	io	Canada Quebec
Acetic acid, propyl	STELs		ppm STEL; 1040 m3 STEL	250 ppm	STEL	250 ppm STE mg/m3 STEL	EL; 1040	250 ppm STEL		250 ppm STEV; 1040 mg/m3 STEV
ester (109-60-4)	TWAs		ppm TWA; 835 m3 TWA	200 ppm	TWA	200 ppm TW. mg/m3 TWA	A; 835	200 ppm TWA		200 ppm TWAEV; 835 mg/m3 TWAEV
2-Butanone	STELs		ppm STEL; 885 m3 STEL	300 ppm	STEL	300 ppm STE mg/m3 STEL	L; 885	300 ppm STEL		100 ppm STEV; 300 mg/m3 STEV
(78-93-3)	TWAs		ppm TWA; 590 m3 TWA	200 ppm	TWA	200 ppm TW mg/m3 TWA	A; 590	200 ppm TWA		50 ppm TWAEV; 150 mg/m3 TWAEV
Cyclohexane	STELs		ppm STEL; 1290 m3 STEL	Not esta	blished	375 ppm STE mg/m3 STEL	EL; 1290	Not established		Not established
(110-82-7)	TWAs		ppm TWA; 1030 m3 TWA	100 ppm	TWA	300 ppm TW. mg/m3 TWA	A; 1030	100 ppm TWA		300 ppm TWAEV; 1030 mg/m3 TWAEV
			Ex	posure	Limits/Gu	idelines (C	on't.)			
	Re	sult	Canada Saskat	chewan	Canada	a Yukon		Europe		OSHA
Acetic acid, propyl ester	TV	/As	200 ppm TWA		200 ppm TW TWA	A; 840 mg/m3	Not esta	blished	200 TWA	ppm TWA; 840 mg/m3 A
(109-60-4)	ST	ELs	Not established		250 ppm STE mg/m3 STEL	EL; 1050	Not esta	blished	Not 6	established
2-Butanone	TV	/As	200 ppm TWA		200 ppm TWA	A; 590 mg/m3	Not esta	blished	200 TWA	ppm TWA; 590 mg/m3
(78-93-3)	ST	ELs	Not established		250 ppm STE STEL	EL; 740 mg/m3	Not esta	blished	Not e	established
Cyclohexane	TV	/As	100 ppm TWA		300 ppm TW. mg/m3 TWA	A; 1050	200 ppm TWA	n TWA; 700 mg/m3		ppm TWA; 1050 n3 TWA
(110-82-7)	ST	ELs	Not established		375 ppm STE mg/m3 STEL	EL; 1300	Not esta	blished	Not (established

Exposure Limits Supplemental ACGIH

- •Cyclohexane (110-82-7): TLV Basis Critical Effects: (CNS impairment)
- •Acetic acid, propyl ester (109-60-4): TLV Basis Critical Effects: (eye and upper respiratory tract irritation)
- •2-Butanone (78-93-3): **BEIs:** (2 mg/L Medium: urine Time: end of shift Parameter: MEK) | **TLV Basis Critical Effects:** (CNS and PNS impairment; upper respiratory tract irritation) | **Notice of Intended Changes (BEIs):** (2 mg/L Medium: urine Time: end of shift Parameter: Methyl ethyl ketone (nonspecific))

8.2 Exposure controls

Engineering Measures/Controls

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

• If using material in area without sufficient ventilation or in confined or enclosed spaces wear a self-contained breathing apparatus or full-face airline respirator.

Eye/Face Skin/Body Safety glasses with side shields should be worn at a minimum.

• Use protective gloves, Nitrile BT>360. The actual work situation is not known. Glove recommendation based upon normal product use and incidental contact only. Contact glove supplier for help with glove selection.

Environmental Exposure Controls

 Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEV = Short Term Exposure Value

OSHA = Occupational Safety and Health Administration

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

TWA = rime-weig exposures

STEL = Short Term Exposure Limits are based on 15-minute 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	Green liquid with characteristic odor.
Color	Green	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties			-
Boiling Point	60 °C(140 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Immiscible
Viscosity	90 Stoke(S,St) or cm2/sec @ 20 °C (68 °F)	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizer.		
Volatility			
Vapor Pressure	175 hPa @ 20 °C(68 °F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	-19 °C(-2.2 °F)	UEL	8.3 %
LEL	1.3 %	Autoignition	Data lacking
Flammability (solid, gas)	Flammable Liquid.		
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

· No data available.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

· None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Cyclohexane (10% TO 25%)	110- 82-7	Acute Toxicity: Ingestion/Oral-Rabbit LD50 • 5.5 mg/kg; Irritation: Skin-Rabbit • 1548 mg 2 Day(s)-Intermittent
Acetic acid, propyl ester (2.5% TO 10%)	109- 60-4	Acute Toxicity: Ingestion/Oral-Rabbit LD50 • 6640 mg/kg; Skin-Rabbit LD50 • >20 mL/kg; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg-Open • Mild irritation
2-Butanone (2.5% TO 10%)	78-93 -3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2737 mg/kg; Inhalation-Rat LC50 • 23500 mg/m³; Skin-Rabbit LD50 • 6480 mg/kg; Irritation: Eye-Rabbit • 80 mg; Skin-Rabbit • 14 mg 24 Hour(s)-Open • Mild irritation; Reproductive: Inhalation-Rat TCLo • 1000 ppm 7 Hour(s)(6-15D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
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; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

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

Chronic (Delayed)

· No data available.

Skin

Acute (Immediate)

• Causes skin irritation.

Chronic (Delayed)

· No data available.

Eye

Acute (Immediate)

Causes eye irritation.

Chronic (Delayed)

· No data available.

Ingestion

Acute (Immediate)

• Based upon data from components this material may be harmful if swallowed.

Chronic (Delayed)

No data available.

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

MLD = Mild

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

 This material may be toxic to aquatic organisms and cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

· No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in Soil

· No data available

12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted by the manufacturer.

12.6 Other adverse effects

No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

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

Packaging waste

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

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1133	Adhesives	3	=	NDA
TDG	UN1133	ADHESIVES	3	=	Marine Pollutant
IMO/IMDG	UN1133	ADHESIVES containing flammable liquids (Naphtha (petroleum), hydrotreated light, CYCLOHEXANE), MARINE POLLUTANT	3	=	Marine Pollutant
ADN	UN1133	ADHESIVES containing flammable liquid(vapour pressure at 50 °C not more than 110 kPa)	3	II	Marine Pollutant
ADR/RID	UN1133	Adhesives	3		Marine Pollutant
IATA/ICAO	UN1133	Adhesives	3		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 · Not relevant.

Code

14.8 Other information

DOT • Cyclohexane has a reportable quantity of 1000lbs (454kg) as listed in Appendix A to 49 CFR 172.101. 2-Butanone 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, Fire

	State Right	To Know	
CAS	MA	NJ	PA
78-93-3	Yes	Yes	Yes
109-60-4	Yes	Yes	Yes
110-82-7	Yes	Yes	Yes
	78-93-3 109-60-4	CAS MA 78-93-3 Yes 109-60-4 Yes	78-93-3 Yes Yes 109-60-4 Yes Yes

Naphtha (petroleum), hydrotreated light	64742-49-0	No	No	No
Zinc, bis (dibutyldithiocarbamato) -	136-23-2	No	No	No

			Inventory		
Component	CAS	Canada DSL	EU EINECS	EU ELNICS	TSCA
2-Butanone	78-93-3	Yes	Yes	No	Yes
Acetic acid, propyl ester	109-60-4	Yes	Yes	No	Yes
Cyclohexane	110-82-7	Yes	Yes	No	Yes
Naphtha (petroleum), hydrotreated light	64742-49-0	Yes	Yes	No	Yes
Zinc, bis (dibutyldithiocarbamato) -	136-23-2	Yes	Yes	No	Yes

Canada

64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3	Not Listed Not Listed B2, D2B B2 B2, D2B
136-23-2 110-82-7 109-60-4	Not Listed B2, D2B B2
110-82-7 109-60-4	B2, D2B B2
109-60-4	B2
78-93-3	B2, D2B
64742-49-0	Not Listed
136-23-2	Not Listed
110-82-7	1 %
109-60-4	1 %
78-93-3	1 %
	136-23-2 110-82-7

Europe

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Naphtha (petroleum), hydrotreated light	64742-49-0	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Xi; R36/37/38 R43 N; R50-53
Cyclohexane	110-82-7	F; R11 Xi; R38 N; R50-53 Xn R65 R67
Acetic acid, propyl ester	109-60-4	F; R11 Xi; R36 R66 R67
• 2-Butanone	78-93-3	F; R11 Xi; R36 R66 R67
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed

Naphtha (petroleum), hydrotreated light	64742-49-0	T R:45-46-65 S:53-45
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Xi N R:36/37/38-43-50/53 S:(2) -24-37-60-61
Cyclohexane	110-82-7	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-25-33-60-61-62
Acetic acid, propyl ester	109-60-4	F Xi R:11-36-66-67 S:(2)-16- 26-29-33
• 2-Butanone	78-93-3	F Xi R:11-36-66-67 S:(2)-9-16
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations		
Naphtha (petroleum), hydrotreated light	64742-49-0	P
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	С
• 2-Butanone	78-93-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Naphtha (petroleum), hydrotreated light	64742-49-0	S:53-45
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	S:(2)-24-37-60-61
Cyclohexane	110-82-7	S:(2)-9-16-25-33-60-61-62
Acetic acid, propyl ester	109-60-4	S:(2)-16-26-29-33
• 2-Butanone	78-93-3	S:(2)-9-16

United States

Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
J.S OSHA - Specifically Regulated Chemicals		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed

Environment U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities • Naphtha (petroleum), hydrotreated light • Zinc, bis(dibutyldithiocarbamato)-	64742-49-0 136-23-2	Not Listed
Cyclohexane	110-82-7	1000 lb final RQ; 454 kg final RQ
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	5000 lb final RQ; 2270 kg final RQ

.S CERCLA/SARA - Section 313 - Emission Reporting Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	1.0 % de minimis concentration
Acetic acid, propyl ester	109-60-4	Not Listed
2-Butanone	78-93-3	Not Listed
S RCRA (Resource Conservation & Recovery Act) - Basis for Listin	g - Appendix VII	
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
2-Butanone	78-93-3	Included in waste streams: F005, F039
.S RCRA (Resource Conservation & Recovery Act) - Constituents for	or Detection Monitoring	
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
· Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
· Acetic acid, propyl ester	109-60-4	Not Listed
2-Butanone	78-93-3	
.S RCRA (Resource Conservation & Recovery Act) - D Series Waste • Naphtha (petroleum), hydrotreated light	es - Max Conc of Contaminan 64742-49-0	ts for the Tox Characterist Not Listed
· Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
• Cyclohexane	110-82-7	Not Listed
•		
Acetic acid, propyl ester	109-60-4	Not Listed
	109-60-4 78-93-3	Not Listed 200.0 mg/L regulatory level
2-Butanone	78-93-3	200.0 mg/L regulatory level
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con 	78-93-3	200.0 mg/L regulatory level
 Acetic acid, propyl ester 2-Butanone I.S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc. bis(dibutyldithiocarbamato)- 	78-93-3 stituents - Appendix VIII to 40 64742-49-0	200.0 mg/L regulatory level OCFR 261 Not Listed
 2-Butanone J.S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed Not Listed
 2-Butanone .S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone .S RCRA (Resource Conservation & Recovery Act) - List for Hazard 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed Not Listed waste number U159
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents 64742-49-0	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents 64742-49-0 136-23-2	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 cous Constituents 64742-49-0 136-23-2 110-82-7	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed Not Listed Not Listed Not Listed Not Listed
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents 64742-49-0 136-23-2	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Cone Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3	200.0 mg/L regulatory leve OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Cone Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR R	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Conservation & Recovery Act) - Hazardous Conservation & Recovery Act) - Hazardous Conservation, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazardous Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Resourch (petroleum), hydrotreated light	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 sous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ule - Universal Treatment Sta	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR R Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)-	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 cous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ule - Universal Treatment Sta 64742-49-0	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Cone Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR R Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Cyclohexane	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 lous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ule - Universal Treatment Sta 64742-49-0 136-23-2	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ule - Universal Treatment Sta 64742-49-0 136-23-2 110-82-7	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Con Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR R Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 cous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ule - Universal Treatment Sta 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed Not Listed
2-Butanone S RCRA (Resource Conservation & Recovery Act) - Hazardous Cone Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - List for Hazard Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester 2-Butanone S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR R Naphtha (petroleum), hydrotreated light Zinc, bis(dibutyldithiocarbamato)- Cyclohexane Acetic acid, propyl ester Cyclohexane Acetic acid, propyl ester	78-93-3 stituents - Appendix VIII to 40 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 cous Constituents 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3 ule - Universal Treatment Sta 64742-49-0 136-23-2 110-82-7 109-60-4 78-93-3	200.0 mg/L regulatory level OCFR 261 Not Listed Not Listed Not Listed Not Listed waste number U159 Not Listed Not Listed

Cyclohexane Acetic acid, propyl ester	110-82-7 109-60-4	Not Listed
• 2-Butanone	78-93-3	
U.S RCRA (Resource Conservation & Recovery Act) - U Series Waste Characteristics	•	
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	waste number U056 (Ignitable waste)
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	waste number U159 (Ignitable waste, Toxic waste)

United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
• Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Not Listed

Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	Not Listed

United States - Pennsylvania

Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	
Acetic acid, propyl ester	109-60-4	Not Listed
• 2-Butanone	78-93-3	

United States - Rhode Island

Labor		
U.S Rhode Island - Hazardous Substance List		
Naphtha (petroleum), hydrotreated light	64742-49-0	Not Listed
Zinc, bis(dibutyldithiocarbamato)-	136-23-2	Not Listed
Cyclohexane	110-82-7	Toxic; Flammable
Acetic acid, propyl ester	109-60-4	Toxic; Flammable
• 2-Butanone	78-93-3	Toxic; Flammable

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

EUH066 - Repeated exposure may cause skin dryness or cracking.

R36/37 - Irritating to eyes and respiratory system. R43 - May cause sensitisation by skin contact.

R50 - Very toxic to aquatic organisms. R52 - Harmful to aquatic organisms.

R65 - Harmful: may cause lung damage if swallowed.

R66 - Repeated exposure may cause skin dryness or cracking.

Revision Date • 10/March/2016

10/March/2016

Disclaimer/Statement of Liability

Preparation Date

• 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 abbreviationsNDA = No data available