

## 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** • **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**Telephone (General)** • firestonemsds@bfdp.com  
800-428-4442**Supplier** • Firestone Building Products Europe  
Ikaroslaan 75  
1930 Zaventem  
Belgium**Telephone (General)** • firestonemsds@bfdp.com  
+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

### 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 - H225
- Skin Irritation 2 - H315
- Eye Irritation 2A - H319
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

### 2.2 Label elements

OSHA HCS 2012

#### DANGER



- Hazard statements**
- Highly flammable liquid and vapour - H225
  - Causes skin irritation - H315
  - Causes serious eye irritation - H319
  - May cause respiratory irritation and drowsiness or dizziness - H335+H336

#### Precautionary statements

- Prevention**
- 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
  - Avoid breathing mist/vapours/spray. - P261
  - Wash thoroughly after handling. - P264
  - Use only outdoors or in a well-ventilated area. - P271
  - Wear protective gloves and eye/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
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
  - Take off contaminated clothing and wash before reuse. - P362
  - If skin irritation occurs: Get medical advice/attention. - P332+P313
  - 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
  - Call a POISON CENTER or doctor/physician if you feel unwell. - P312
  - Specific treatment, see supplemental first aid information. - P321
- Storage/Disposal**
- Keep container tightly closed. - P233
  - Store in a well-ventilated place. Keep cool. - P403+P235
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

### 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<br>EC Number:265-151-9 | 10%<br>TO<br>25%  | NDA                                                                     | EU DSD/DPD: Xn, R65, Xi, R38, F, R11, N, R51/53<br>EU CLP: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3: Narc., H336<br>OSHA HCS 2012: Data Lacking                                                                                                            | NDA      |
| Cyclohexane                             | CAS:110-82-7<br>EC Number:203-806-2   | 10%<br>TO<br>25%  | Ingestion/Oral-Rat<br>LD50 • 12705 mg/kg                                | EU DSD/DPD: Annex VI, Table 3.2: F; R11 Xi; R38 N; R50-53 Xn; R65 R67<br>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<br>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<br>EC Number:203-686-1   | 2.5%<br>TO<br>10% | Ingestion/Oral-Rat<br>LD50 • 9370 mg/kg<br>Skin-Rabbit LD50 • >20 mL/kg | EU DSD/DPD: Annex VI, Table 3.2: F; R11 Xi; R36 R66 R67<br>EU CLP: Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066<br>OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Skin Irrit 2; STOT SE 3: Resp. Irrit. & Narc.                                                                        | NDA      |

|                                        |                                                     |                   |                                                                                                                              |                                                                                                                                                                                                                                                                    |     |
|----------------------------------------|-----------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 2-Butanone                             | <b>CAS:</b> 78-93-3<br><b>EC Number:</b> 201-159-0  | 2.5%<br>TO<br>10% | Ingestion/Oral-Rat<br>LD50 • 2737 mg/kg<br>Inhalation-Rat<br>LC50 • 23500 mg/m <sup>3</sup><br>Skin-Rabbit LD50 • 6480 mg/kg | <b>EU DSD/DPD:</b> Annex VI, Table 3.2: F; R11 Xi; R36 R66 R67<br><b>EU CLP:</b> Annex VI: Flam. Liq. 2., H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066<br><b>OSHA HCS 2012:</b>                                                                        | NDA |
| Zinc, bis<br>(dibutyldithiocarbamate)- | <b>CAS:</b> 136-23-2<br><b>EC Number:</b> 205-232-8 | <=<br>2.5%        | NDA                                                                                                                          | <b>EU DSD/DPD:</b> Annex VI, Table 3.2: Xi; R36/37/38 R43 N; R50-53<br><b>EU CLP:</b> 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<br><b>OSHA HCS 2012:</b> 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. Do not 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 CO<sub>2</sub>, 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 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

- 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

| Exposure Limits/Guidelines           |        |                                           |                                           |                                           |                                         |                                           |
|--------------------------------------|--------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|-------------------------------------------|
|                                      | Result | ACGIH                                     | Canada Alberta                            | Canada British Columbia                   | Canada Manitoba                         | Canada New Brunswick                      |
| Acetic acid, propyl ester (109-60-4) | STELs  | 250 ppm STEL                              | 250 ppm STEL; 1040 mg/m <sup>3</sup> STEL | 250 ppm STEL                              | 250 ppm STEL                            | 250 ppm STEL; 1040 mg/m <sup>3</sup> STEL |
|                                      | TWAs   | 200 ppm TWA                               | 200 ppm TWA; 835 mg/m <sup>3</sup> TWA    | 200 ppm TWA                               | 200 ppm TWA                             | 200 ppm TWA; 835 mg/m <sup>3</sup> TWA    |
| 2-Butanone (78-93-3)                 | STELs  | 300 ppm STEL                              | 300 ppm STEL; 885 mg/m <sup>3</sup> STEL  | 100 ppm STEL                              | 300 ppm STEL                            | 300 ppm STEL; 885 mg/m <sup>3</sup> STEL  |
|                                      | TWAs   | 200 ppm TWA                               | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA    | 50 ppm TWA                                | 200 ppm TWA                             | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA    |
| Cyclohexane (110-82-7)               | TWAs   | 100 ppm TWA                               | 100 ppm TWA; 344 mg/m <sup>3</sup> TWA    | 100 ppm TWA                               | 100 ppm TWA                             | 300 ppm TWA; 1030 mg/m <sup>3</sup> TWA   |
| Exposure Limits/Guidelines (Con't.)  |        |                                           |                                           |                                           |                                         |                                           |
|                                      | Result | Canada Northwest Territories              | Canada Nova Scotia                        | Canada Nunavut                            | Canada Ontario                          | Canada Quebec                             |
| Acetic acid, propyl ester (109-60-4) | STELs  | 250 ppm STEL; 1040 mg/m <sup>3</sup> STEL | 250 ppm STEL                              | 250 ppm STEL; 1040 mg/m <sup>3</sup> STEL | 250 ppm STEL                            | 250 ppm STEV; 1040 mg/m <sup>3</sup> STEV |
|                                      | TWAs   | 200 ppm TWA; 835 mg/m <sup>3</sup> TWA    | 200 ppm TWA                               | 200 ppm TWA; 835 mg/m <sup>3</sup> TWA    | 200 ppm TWA                             | 200 ppm TWA; 835 mg/m <sup>3</sup> TWA    |
| 2-Butanone (78-93-3)                 | STELs  | 300 ppm STEL; 885 mg/m <sup>3</sup> STEL  | 300 ppm STEL                              | 300 ppm STEL; 885 mg/m <sup>3</sup> STEL  | 300 ppm STEL                            | 100 ppm STEV; 300 mg/m <sup>3</sup> STEV  |
|                                      | TWAs   | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA    | 200 ppm TWA                               | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA    | 200 ppm TWA                             | 50 ppm TWA; 150 mg/m <sup>3</sup> TWA     |
| Cyclohexane (110-82-7)               | STELs  | 375 ppm STEL; 1290 mg/m <sup>3</sup> STEL | Not established                           | 375 ppm STEL; 1290 mg/m <sup>3</sup> STEL | Not established                         | Not established                           |
|                                      | TWAs   | 300 ppm TWA; 1030 mg/m <sup>3</sup> TWA   | 100 ppm TWA                               | 300 ppm TWA; 1030 mg/m <sup>3</sup> TWA   | 100 ppm TWA                             | 300 ppm TWA; 1030 mg/m <sup>3</sup> TWA   |
| Exposure Limits/Guidelines (Con't.)  |        |                                           |                                           |                                           |                                         |                                           |
|                                      | Result | Canada Saskatchewan                       | Canada Yukon                              | Europe                                    | OSHA                                    |                                           |
| Acetic acid, propyl ester (109-60-4) | TWAs   | 200 ppm TWA                               | 200 ppm TWA; 840 mg/m <sup>3</sup> TWA    | Not established                           | 200 ppm TWA; 840 mg/m <sup>3</sup> TWA  |                                           |
|                                      | STELs  | Not established                           | 250 ppm STEL; 1050 mg/m <sup>3</sup> STEL | Not established                           | Not established                         |                                           |
| 2-Butanone (78-93-3)                 | TWAs   | 200 ppm TWA                               | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA    | Not established                           | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA  |                                           |
|                                      | STELs  | Not established                           | 250 ppm STEL; 740 mg/m <sup>3</sup> STEL  | Not established                           | Not established                         |                                           |
| Cyclohexane (110-82-7)               | TWAs   | 100 ppm TWA                               | 300 ppm TWA; 1050 mg/m <sup>3</sup> TWA   | 200 ppm TWA; 700 mg/m <sup>3</sup> TWA    | 300 ppm TWA; 1050 mg/m <sup>3</sup> TWA |                                           |
|                                      | STELs  | Not established                           | 375 ppm STEL; 1300 mg/m <sup>3</sup> STEL | Not established                           | 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

- Safety glasses with side shields should be worn at a minimum.

#### Skin/Body

- Wear protective gloves.

### 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

TWA = Time-Weighted Averages are based on 8h/day, 40h/week 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          | Data lacking                           |
| Decomposition Temperature           | Data lacking                                         | pH                     | Data lacking                           |
| Specific Gravity/Relative Density   | Data lacking                                         | Water Solubility       | Immiscible                             |
| Viscosity                           | 90 Stoke(S,St) or cm <sup>2</sup> /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

| Component Name                          | CAS      | Data                                                                                                                                                                                                                              |
|-----------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cyclohexane (10% TO 25%)                | 110-82-7 | <b>Acute Toxicity:</b> orl-rbt LD50:5.5 mg/kg;<br><b>Irritation:</b> skn-rbt 1548 mg/2D-I                                                                                                                                         |
| Acetic acid, propyl ester (2.5% TO 10%) | 109-60-4 | <b>Acute Toxicity:</b> orl-rbt LD50:6640 mg/kg; skn-rbt LD50:>20 mL/kg;<br><b>Irritation:</b> eye-rbt 500 mg/24H MLD; skn-rbt 500 mg open MLD                                                                                     |
| 2-Butanone (2.5% TO 10%)                | 78-93-3  | <b>Acute Toxicity:</b> orl-rat LD50:2737 mg/kg; ihl-rat LC50:23500 mg/m3; skn-rbt LD50:6480 mg/kg;<br><b>Irritation:</b> eye-rbt 80 mg; skn-rbt 14 mg/24H open MLD;<br><b>Reproductive:</b> ihl-rat TCLo:1000 ppm/7H (6-15D preg) |

| GHS Properties            | Classification                                                                                                                                                                                                                                       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met                                                                                                                                                          |
| Aspiration Hazard         | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met                                                                                                                                                          |
| Carcinogenicity           | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met                                                                                                                                                          |
| Germ Cell Mutagenicity    | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met                                                                                                                                                          |
| Skin corrosion/Irritation | EU/CLP • Skin Irritation 2<br>OSHA HCS 2012 • Skin Irritation 2                                                                                                                                                                                      |
| Skin sensitization        | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met                                                                                                                                                          |
| STOT-RE                   | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met                                                                                                                                                          |
| STOT-SE                   | EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects<br>OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects;<br>Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation |

|                                      |                                                                                             |
|--------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Toxicity for Reproduction</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Respiratory sensitization</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Serious eye damage/Irritation</b> | EU/CLP • Eye Irritation 2<br>OSHA HCS 2012 • Eye Irritation 2A                              |

## Potential Health Effects

### Inhalation

- Acute (Immediate)**
- May cause respiratory irritation. Repeated and prolonged exposure 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                               | II                 | NDA                        |
| TDG       | UN1133         | ADHESIVES                                                                                                       | 3                               | II                 | Marine Pollutant           |
| IMO/IMDG  | UN1133         | ADHESIVES containing flammable liquids (Naphtha (petroleum), hydrotreated light, CYCLOHEXANE), MARINE POLLUTANT | 3                               | II                 | 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                               | II                 | Marine Pollutant           |
| 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** ● 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                     |            |     |     |     |
|-----------------------------------------|------------|-----|-----|-----|
| Component                               | CAS        | MA  | NJ  | PA  |
| 2-Butanone                              | 78-93-3    | Yes | Yes | Yes |
| Acetic acid, propyl ester               | 109-60-4   | Yes | Yes | Yes |
| Cyclohexane                             | 110-82-7   | Yes | Yes | Yes |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | No  | No  | No  |
| Zinc, bis (dibutylthiocarbamate)        | 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(dibutylthiocarbamate)         | 136-23-2   | Yes        | Yes       | No        | Yes  |

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

|                                           |            |            |
|-------------------------------------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | Not Listed |
| • Zinc, bis(dibutylthiocarbamate)-        | 136-23-2   | Not Listed |
| • Cyclohexane                             | 110-82-7   | B2, D2B    |
| • Acetic acid, propyl ester               | 109-60-4   | B2         |
| • 2-Butanone                              | 78-93-3    | B2, D2B    |

#### Canada - WHMIS - Ingredient Disclosure List

|                                           |            |            |
|-------------------------------------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | Not Listed |
| • Zinc, bis(dibutylthiocarbamate)-        | 136-23-2   | Not Listed |
| • Cyclohexane                             | 110-82-7   | 1 %        |
| • Acetic acid, propyl ester               | 109-60-4   | 1 %        |
| • 2-Butanone                              | 78-93-3    | 1 %        |

## Europe

### Other

#### 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(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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 |

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

|                                           |            |                                             |
|-------------------------------------------|------------|---------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | T R:45-46-65 S:53-45                        |
| • Zinc, bis(dibutylthiocarbamate)-        | 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<br>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   | C          |
| • 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****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous 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 |

**U.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 | 64742-49-0 | Not Listed                         |
| • Zinc, bis(dibutyldithiocarbamato)-      | 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 |

**U.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                     |

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

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

**U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Toxic Characteristic**

|                                           |            |                             |
|-------------------------------------------|------------|-----------------------------|
| • 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    | 200.0 mg/L regulatory level |

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

|                                           |            |                   |
|-------------------------------------------|------------|-------------------|
| • 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    | waste number U159 |

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

|                                           |            |            |
|-------------------------------------------|------------|------------|
| • 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    |            |

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

|                                           |            |                                                  |
|-------------------------------------------|------------|--------------------------------------------------|
| • 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    | 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) |

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

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

|                                           |            |                                                  |
|-------------------------------------------|------------|--------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | Not Listed                                       |
| • Zinc, bis(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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(dibutylthiocarbamate)-        | 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(dibutyldithiocarbamate)-      | 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(dibutyldithiocarbamate)-      | 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.

### Last Revision Date

- 14/May/2013

### Preparation Date

- 14/May/2013

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### Key to abbreviations

NDA = No data available



