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

1.1 Product identifier
Product Name: ATM Water Base Primer
Product Code: 19-099; 19-100; 19-101; 19-102

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s): Highway tape adhesive primer

1.3 Details of the supplier of the safety data sheet
Manufacturer: Patch Rubber Company
100 Patch Rubber Road
Weldon, NC 27890
United States
Telephone (General): (252)-536-2574
Responsible party: Christian Gimenez
Intertek Analytical Services France
France
Telephone (Technical): 33 (0) 6 07 11 22 15

1.4 Emergency telephone number
Manufacturer: 1-800-424-9300 - CHEMTREC
Manufacturer: +1 703-527-3887 - CHEMTREC - Outside USA & CANADA (collect calls accepted)

Section 2: Hazards Identification

EU/EEC
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture
CLP
- Skin Irritation 2 - H315
- Skin Sensitization 1 - H317
- Respiratory Sensitization 1 - H334

DSD/DPD
- Irritant (Xi)
- R38, R42/43
2.2 Label Elements

CLP

DANGER

Hazard statements
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements

Prevention
- P261 - Avoid breathing mist/vapours/spray.
- P264 - Wash thoroughly after handling.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P285 - In case of inadequate ventilation wear respiratory protection.

Response
- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P321 - Specific treatment, see supplemental first aid information.

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

DSD/DPD

Risk phrases
- R38 - Irritating to skin.
- R42/43 - May cause sensitisation by inhalation and skin contact.

Safety phrases
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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
- Skin Irritation 2 - H315
- Skin Sensitization 1A - H317
- Respiratory Sensitization 1 - H334

2.2 Label elements

OSHA HCS 2012

DANGER
Hazard statements
- Causes skin irritation - H315
- May cause an allergic skin reaction - H317
- May cause allergy or asthma symptoms or breathing difficulties if inhaled - H334

Precautionary statements
Prevention
- Avoid breathing mist/vapours/spray. - P261
- Wash thoroughly after handling. - P264
- Contaminated work clothing should not be allowed out of the workplace. - P272
- Wear protective gloves/protective clothing/eye protection/face protection. - P280
- In case of inadequate ventilation wear respiratory protection. - P285

Response
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P341
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. - P342+P311
- IF ON SKIN: Wash with plenty of soap and water. - P302+P352
- If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
- Take off contaminated clothing and wash before reuse. - P362
- Specific treatment, see supplemental first aid information. - P321

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

2.3 Other hazards
OSHA HCS 2012

Canada
According to WHMIS

2.1 Classification of the substance or mixture
WHMIS
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements
WHMIS
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.3 Other hazards
WHMIS
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information
NFPA

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>% (weight)</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber, natural</td>
<td>CAS:9006-04-6</td>
<td>&lt;=30.04%</td>
<td>NDA</td>
<td>EU DSD/DPD: Self Classified - Xi; R38 R42/R43</td>
<td>NDA</td>
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<tr>
<td></td>
<td>UN: UN1287</td>
<td></td>
<td></td>
<td>EU CLP: Self Classified - Skin Irrit. 2, H319;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EINECS:232-689-0</td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317; Resp. Sens. 1, H334</td>
<td></td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Skin Irrit. 2; Skin Sens. 1A; Resp.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sens. 1</td>
<td></td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>CAS:1336-21-6</td>
<td>0.1802%</td>
<td>Ingestion/Oral Rat LD50 • 350 mg/kg</td>
<td>NDA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC Number:215-647-6</td>
<td></td>
<td></td>
<td>EU DSD/DPD: Annex I - C; R34 N; R50</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td>EU CLP: Annex VI - Skin Corr. 1B, H314;</td>
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<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Acute Tox. 4 (oral); Eye Irrit. 2</td>
<td></td>
</tr>
<tr>
<td>Disulfide, bis</td>
<td>CAS:137-26-8</td>
<td>&lt; 0.015%</td>
<td>Ingestion/Oral Rat LD50 • 560 mg/kg</td>
<td>NDA</td>
<td></td>
</tr>
<tr>
<td>(dimethylthiocarbamoyl)</td>
<td>EC Number:205-286-2</td>
<td></td>
<td></td>
<td>EU DSD/DPD: Annex I - Xn; R20/22 R48/22 Xi; R36/38</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R43 N; R50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EU CLP: Annex VI - Acute Tox. 4* H332; Acute Tox. 4*</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H302; STOT RE 2* H373** Eye Irrit. 2, H319; Skin</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H400; Aquatic Chronic 1, H410 M=10</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Acute Tox. 4 (oral); Acute Tox. (inhalation); STOT RE 2; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3; Resp. Irrit.; Skin Sens. 1</td>
<td></td>
</tr>
<tr>
<td>2-amino-2-methyl-1-propanol</td>
<td>CAS:124-68-5</td>
<td>&lt;=0.0002%</td>
<td>Ingestion/Oral Rat LD50 • 2900 mg/kg</td>
<td>NDA</td>
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<tr>
<td></td>
<td>EC Number:204-709-8</td>
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<td>EU DSD/DPD: Annex I - Xi; R36/38 R52-53</td>
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<td></td>
<td></td>
<td></td>
<td>EU CLP: Annex IV - Eye Irrit. 2; H319; Skin Irrit. 2</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H315; Aquatic Chronic 3, H412</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Skin Irrit. 2</td>
<td></td>
</tr>
</tbody>
</table>

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**
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

**Skin**
- IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

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

**Ingestion**
- Do not use mouth-to-mouth method if victim ingested the substance.

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**
- Treat symptomatically and supportively. No special treatment necessary specifically.
See Section 2 for Potential Health Effects.

Section 5 - Firefighting Measures

5.1 Extinguishing media

**Suitable Extinguishing Media**
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
- LARGE FIRE: Water spray, fog or regular foam.

**Unsuitable Extinguishing Media**
- None known.

5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- Material is non-combustible and is not expected to pose a fire or explosion hazard.

**Hazardous Combustion Products**
- None known.

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters’ protective clothing provides limited protection in fire situations ONLY: it is not effective in spill situations where direct contact with the substance is possible.
- LARGE FIRES: Dike fire-control water for later disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions**
- Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wear appropriate Personal Protective Equipment (PPE).

**Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures**
- Absorb with earth, sand or other non-combustible material.

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**
- Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use only with adequate ventilation. Individuals with known or suspected latex allergies should avoid all contact with this material.

7.2 Conditions for safe storage, including any incompatibilities

**Storage**
- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.
### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Result</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>France</th>
<th>Germany DFG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disulfide, bis (dimethylthiocarbamoyl) (137-26-8)</td>
<td>TWAs</td>
<td>0.05 mg/m³ TWA (inhaleable fraction and vapor)</td>
<td>0.05 mg/m³ TWA (inhaleable fraction and vapor, listed under Thiram)</td>
<td>5 mg/m³ TWAEV</td>
<td>5 mg/m³ TWA [VME]</td>
<td>Not established</td>
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<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>2 mg/m³ Peak (inhaleable fraction)</td>
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<tr>
<td>MAKs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1 mg/m³ TWA MAK (inhaleable fraction)</td>
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</tr>
<tr>
<td>Rubber, natural (9006-04-6)</td>
<td>TWAs</td>
<td>0.0001 mg/m³ TWA (inhaleable fraction, as inhalable allergenic proteins)</td>
<td>0.0001 mg/m³ TWA (inhaleable, as inhalable allergenic proteins)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>Germany TRGS</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-amino-2-methyl-1-propanol (124-68-5)</td>
<td>TWAs</td>
<td>1 ppm TWA AGW (exposure factor 2); 4.6 mg/m³ TWA AGW (exposure factor 2)</td>
<td>Not established</td>
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<tr>
<td>Disulfide, bis (dimethylthiocarbamoyl) (137-26-8)</td>
<td>TWAs</td>
<td>1 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 2)</td>
<td>5 mg/m³ TWA</td>
</tr>
</tbody>
</table>

### Exposure Control Notations

**Germany TRGS**
- Rubber, natural (9006-04-6): **Sensitizers:** (Respiratory sensitizer (May cause sensitization by inhalation; May cause allergy or asthma symptoms of breathing difficulties if inhaled, listed under Substances or substance groups with sufficient scientific evidence showing sensitizing effects); Skin sensitizer (May cause sensitization by skin contact; May cause an allergic skin reaction, listed under Substances or substance groups with sufficient scientific evidence showing sensitizing effects))

**Germany DFG**
- Rubber, natural (9006-04-6): **Sensitizers:** (respiratory and skin sensitizer)
- Disulfide, bis(dimethylthiocarbamoyl) (137-26-8): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Sensitizers:** (skin sensitizer)

### 8.2 Exposure controls

**Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**Personal Protective Equipment**

**Pictograms**
- ![Pictogram](image)

**Respiratory**
- In case of insufficient ventilation, wear suitable respiratory equipment. If material is being applied through a spray application process respiratory protection should be
Eye/Face  
- Wear safety glasses.

Skin/Body  
- Wear protective gloves and clothing.

Environmental Exposure Controls  
- Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

OSHA = Occupational Safety and Health Administration

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

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
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</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Liquid</td>
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<tr>
<td>Color</td>
<td>Data lacking</td>
<td>Odor</td>
<td>Data lacking</td>
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<tr>
<td>Odor Threshold</td>
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General Properties

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<th>Boiling Point</th>
<th>Data lacking</th>
<th>Melting Point</th>
<th>Data lacking</th>
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<tbody>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
<td>pH</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>0.98 Water=1</td>
<td>Density</td>
<td>8.16 lbs/gal</td>
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<tr>
<td>Water Solubility</td>
<td>Data lacking</td>
<td>Viscosity</td>
<td>Not relevant</td>
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<tr>
<td>Explosive Properties</td>
<td>Data lacking</td>
<td>Oxidizing Properties:</td>
<td>Data lacking</td>
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Volutility

<table>
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<tr>
<th>Vapor Pressure</th>
<th>Data lacking</th>
<th>Vapor Density</th>
<th>Data lacking</th>
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</thead>
<tbody>
<tr>
<td>Evaporation Rate</td>
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Flammability

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<th>Flash Point</th>
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<th>UEL</th>
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<tr>
<td>LEL</td>
<td>Not relevant</td>
<td>Autoignition</td>
<td>Not relevant</td>
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<tr>
<td>Flammability (solid, gas)</td>
<td>Not relevant.</td>
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</tbody>
</table>

Environmental

<table>
<thead>
<tr>
<th>Octanol/Water Partition coefficient</th>
<th>Data lacking</th>
</tr>
</thead>
</table>

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
- Extreme temperatures. Incompatible materials.

### 10.5 Incompatible materials
- Strong oxidizing agents, alkali metals.

### 10.6 Hazardous decomposition products
- Hydrocarbons, Carbon Oxides from dried solids.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide (0.1802%)</td>
<td>1336-21-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Acute Toxicity:</strong> ovl-rat LD50:350 mg/kg;</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Irritation:</strong> eye-rbt 1 mg/30S rinse SEV; eye-rbt 44 ug SEV</td>
</tr>
<tr>
<td>Disulfide, bis(dimethylthiocarbamoyl) (&lt; 0.015%)</td>
<td>137-26-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Acute Toxicity:</strong> ovl-rat LD50:560 mg/kg;</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Irritation:</strong> eye-rbt 100 mg/24H MOD;</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Reproductive:</strong> ovl-rat TDLo:1200 mg/kg (7-12D preg)</td>
</tr>
<tr>
<td>2-amino-2-methyl-1-propanol (&lt;= 0.0002%)</td>
<td>124-68-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Acute Toxicity:</strong> ovl-rat LD50:2900 mg/kg</td>
</tr>
</tbody>
</table>

### GHS Properties

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
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<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Classification criteria not met</td>
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<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Skin Irritation 2</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Skin Sensitizer 1</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Skin Sensitizer 1A</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Classification criteria not met</td>
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<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Respiratory Sensitizer 1</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Respiratory Sensitizer 1</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>
Potential Health Effects

Inhalation
- **Acute (Immediate)**: May cause respiratory irritation.
- **Chronic (Delayed)**: May cause respiratory sensitization. Previously sensitized individuals can have very severe (life-threatening) reactions if exposed to latex. Severe reactions to latex can have symptoms that may include, asthma and anaphylactic shock.

Skin
- **Acute (Immediate)**: Causes skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash. This product contains latex. Previously sensitized individuals can have very severe (life-threatening) reactions if exposed to latex. Severe reactions to latex can have symptoms that may include skin rash, angiodema, asthma and anaphylactic shock.
- **Chronic (Delayed)**: No data available.

Eye
- **Acute (Immediate)**: Causes serious eye irritation.
- **Chronic (Delayed)**: No data available.

Ingestion
- **Acute (Immediate)**: Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**: No data available.

Key to abbreviations
- TD = Toxic Dose
- MOD = Moderate
- LD = Lethal Dose
- SEV = Severe
- MLD = Mild
- LC = Lethal Concentration

Section 12 - Ecological Information

12.1 Toxicity
- Material data lacking.

12.2 Persistence and degradability
- Material data lacking.

12.3 Bioaccumulative potential
- Material data lacking.

12.4 Mobility in Soil
- Material data lacking.

12.5 Results of PBT and vPvB assessment
- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects
- ecological fate
- Material data lacking.

12.7 Other Information
- This material contains CAS 137-26-8 - tetramethylthiuram thiram disulphide (TMTD) which is listed on Annex I as harmful to the aquatic environment: N; R50-53 or R52-53 based upon concentration cut-offs. This chemical is also listed on Annex VI as Aquatic Acute 1 and Aquatic Chronic 1 with an M factor of 10. Classifications for the material as a whole have been extrapolated based upon this data.
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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
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<td>NDA</td>
<td>NDA</td>
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<tr>
<td>IATA/ICAO</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Acute

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Rubber, natural</td>
<td>9006-04-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>4,4'-dimethyloxazolidine</td>
<td>51200-87-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Disulfide, bis (dimethylthiocarbamoyl)</td>
<td>137-26-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3,4,4'-Triemthyloxazolidine</td>
<td>75673-43-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-amino-2-methyl-1-propanol</td>
<td>124-68-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Formaldehyde Amine Resin</td>
<td>56652-26-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
### Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Canada

#### Labor

**Canada - WHMIS - Classifications of Substances**

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% E
- Water 7732-18-5 0.0042% Uncontrolled product according to WHMIS classification criteria

**Canada - WHMIS - Ingredient Disclosure List**

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% 1 %
- Ammonium hydroxide 1336-21-6 0.1802% 1 %
- Water 7732-18-5 0.0042% Not Listed

### Environment

**Canada - CEPA - Priority Substances List**

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

### Europe

#### Other

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Not Listed</td>
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<tr>
<td>Disulfide, bis(dimethylthiocarbamoyl)</td>
<td>137-26-8</td>
<td>&lt;= 0.015%</td>
<td></td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
<td>0.1802%</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>0.0042%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
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</thead>
<tbody>
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<td>Water</td>
<td>7732-18-5</td>
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</tr>
</tbody>
</table>

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

<table>
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<th>Substance</th>
<th>CAS Number</th>
<th>Notes</th>
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<tbody>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
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<tbody>
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</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

### United States

#### Labor

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
<td>0.1802%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>0.0042%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

---

Preparation Date: 09/March/2012  
Revision Date: 30/October/2012
Environment

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% 10 lb final RQ; 4.54 kg final RQ
- Ammonium hydroxide 1336-21-6 0.1802% 1000 lb final RQ; 454 kg final RQ
- Water 7732-18-5 0.0042% Not Listed

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% 1.0 % de minimis concentration
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

U.S. - EPA - Designated Generic Categories - Aqueous Ammonia

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Waste number U244
• Ammonium hydroxide 1336-21-6 0.1802% NH3 Equiv. Wt. % = 48.59
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Waste number U244
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Waste number U244
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Waste number U244
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed
United States - California

Environment

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed

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

• Rubber, natural 9006-04-6 <= 30.04% Not Listed
• Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
• Ammonium hydroxide 1336-21-6 0.1802% Not Listed
• Water 7732-18-5 0.0042% Not Listed
United States - Pennsylvania

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015%
- Ammonium hydroxide 1336-21-6 0.1802%
- Water 7732-18-5 0.0042% Not Listed

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Not Listed
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

United States - Rhode Island

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

- Rubber, natural 9006-04-6 <= 30.04% Not Listed
- Disulfide, bis(dimethylthiocarbamoyl) 137-26-8 < 0.015% Toxic
- Ammonium hydroxide 1336-21-6 0.1802% Not Listed
- Water 7732-18-5 0.0042% Not Listed

15.2 Chemical Safety Assessment

- Chemical Safety Assessment is not required.

15.3 Other Information

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

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- R38 - Irritating to skin.
- R42/43 - May cause sensitisation by inhalation and skin contact.

Last Revision Date
- 30/October/2012

Preparation Date
- 09/March/2012

Disclaimer/Statement of
- The information contained herein is believed to be accurate but is not warranted to be
Liability

so. Data and calculations are based on information furnished by the manufacturer of
the product and manufacturers of the components of the product. Users are advised to
confirm in advance of need that information is current, applicable and suited to the
circumstance of use. Vendor assumes no responsibility for injury to vendee or third
persons proximately caused by the material if reasonable safety procedures are not
adhered to as stipulated in the data sheet. Furthermore, vendor assumes no
responsibility for injury caused by abnormal use of this material even if reasonable
safety procedures are followed. Any questions regarding this product should be
directed to the manufacturer of the product as described in Section 1.

Key to abbreviations
NDA = No data available.