Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name: BOSTIK TUF AS NAILS ORIGINAL
Pure substance/mixture: mixture

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use: Adhesives.
Uses Advised Against: No information available.

1.3. Details of the Supplier of the Safety Data Sheet

Company Name: Bostik New Zealand Limited
Bostik Australia Pty Ltd
19 Eastern Hutt Road Wingate,
51-71 High street,
Lower Hutt, New Zealand
Thomastown Victoria
Tel: 04-567 5119
Australia
Fax: 04-567 5412
Tel: 613 9279-9333
Fax: 613 9279-9342
24-hr Emergency: 1800 033 111

1.4. Emergency Telephone Number

Emergency Telephone: 24 Hr: 0800 243 622
Poison Centre: 0800 764 766

E-mail address: SDS.AP@Bostik.com

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the Substance or Mixture

<table>
<thead>
<tr>
<th>Substance/Property</th>
<th>Classification NZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration toxicity</td>
<td>Category 1 (6.1E)</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2 (6.3A)</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 2 (9.1D)</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 2 (9.1B)</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>Category 2 (3.1B)</td>
</tr>
</tbody>
</table>

Classification in parenthesis is applicable for New Zealand Hazard Classification

ERMA Group: HSR002662

2.2. Label Elements

Signal Word: DANGER
Hazard statements
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H411 - Toxic to aquatic life with long lasting effects
H225 - Highly flammable liquid and vapor

Precautionary Statements - Prevention
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P273 - Avoid release to the environment
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/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

Precautionary Statements - Response
P321 - Specific treatment (see supplemental first aid instructions on this label)
Skin
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P363 - Wash contaminated clothing before reuse

Ingestion
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting

Fire
In case of fire: Use CO2, dry chemical, or foam to extinguish

Spill
P391 - Collect spillage

Precautionary Statements - Storage
P405 - Store locked up
P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Mixture

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>5 - &lt;10</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>108-87-2</td>
<td>1 - &lt;5</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>1 - &lt;3</td>
</tr>
</tbody>
</table>

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General Advice
If medical advice is needed, have product container or label at hand.

Inhalation
Remove to fresh air.

Skin Contact
Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Ingestion
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Self-protection of the First Aider
Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed
Symptoms
None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
Note to physicians
Treat symptomatically.

4.4. Reference to Other Sections
Reference to Other Sections
See Section 12: ECOLOGICAL INFORMATION. Section 7: HANDLING AND STORAGE. Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media
Suitable Extinguishing Media
Use CO2, dry chemical, or foam. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media
No information available.

5.2. Special Hazards Arising from the Substance or Mixture
Specific Hazards Arising from the Chemical
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3. Advice for Firefighters
Special Protective Equipment for Fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
Personal Precautions
Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

For Emergency Responders
Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Environmental Precautions
Environmental Precautions
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. See Section 12 for additional Ecological Information.

6.3. Methods and Material for Containment and Cleaning up
Methods for Containment
Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Protect from moisture.
Methods for Cleaning up
Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

6.4. Reference to other sections
Reference to Other Sections
See Section 12: ECOLOGICAL INFORMATION
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling
Advice on Safe Handling
Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ventilating/lighting/equipment.

### 7.2. Conditions for Safe Storage, including any Incompatibilities
**General Hygiene Considerations**
Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

**Storage Conditions**
Keep only in the original container/package in a cool well-ventilated place. Protect from moisture. Protect from direct contact with water or excessive moisture.

**Incompatible Materials**
Strong acids and bases

### 7.3. Specific End Use(s)
**Other Information**
No information available.

### 7.4. References to Other Sections
Reference to Other Sections
See Section 12: ECOLOGICAL INFORMATION. Section 7: HANDLING AND STORAGE. Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

#### Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Zealand</th>
<th>Australia</th>
<th>European Union</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane 110-82-7</td>
<td>TWA: 100 ppm</td>
<td>100 ppm</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 350 mg/m³</td>
<td>350 mg/m³</td>
<td>TWA: 700 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL: 300 ppm</td>
<td>1050 mg/m³ STEL</td>
<td>-</td>
</tr>
<tr>
<td>Methylcyclohexane 108-87-2</td>
<td>TWA: 400 ppm</td>
<td>400 ppm</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>TWA: 1610 mg/m³</td>
<td>1610 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Hexane 110-54-3</td>
<td>TWA: 20 ppm</td>
<td>20 ppm</td>
<td>TWA: 20 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 72 mg/m³</td>
<td>72 mg/m³</td>
<td>TWA: 72 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>NIOSH IDLH</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane 110-82-7</td>
<td>TWA: 100 ppm</td>
<td>IDLH: 1300 ppm</td>
<td>TWA: 300 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 300 ppm</td>
<td>TWA: 1050 mg/m³</td>
</tr>
<tr>
<td>Methylcyclohexane 108-87-2</td>
<td>TWA: 400 ppm</td>
<td>IDLH: 1200 ppm</td>
<td>TWA: 500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 400 ppm</td>
<td>TWA: 2000 mg/m³</td>
</tr>
<tr>
<td>Hexane 110-54-3</td>
<td>TWA: 50 ppm</td>
<td>IDLH: 1100 ppm</td>
<td>TWA: 500 ppm</td>
</tr>
<tr>
<td></td>
<td>S*</td>
<td>TWA: 50 ppm</td>
<td>TWA: 1800 mg/m³</td>
</tr>
</tbody>
</table>
Safety Data Sheet

BOSTIK TUF AS NAILS ORIGINAL
Version 1

Derived No Effect Level (DNEL)  No information available
Predicted No Effect Concentration (PNEC)  No information available
Other Information  No information available

8.2. Exposure Controls

8.2.1. Engineering Controls
Ensure adequate ventilation, especially in confined areas.

8.2.2. PPE - Personal Protection Equipment

Eye/Face Protection
Wear safety glasses with side shields (or goggles).

Skin and Body Protection
Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.

Hand Protection
Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Respiratory Protection
No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.

General Hygiene Considerations
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Environmental Exposure Controls
Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Very viscous</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point</td>
<td>approx 70 °C / 158 °F</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>approx -15 °C / 5 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
<td>Not applicable for liquids</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.14 °C</td>
<td>@ 25 °C</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other Information

Softening Point                        | No information available    |
Molecular Weight                        | No information available    |
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity
Stable under recommended storage conditions.

10.2. Chemical Stability
Stability
Stable under recommended storage conditions

10.3. Possibility of Hazardous Reactions
Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to Avoid
Conditions to Avoid
Keep away from heat, sparks and flames. Protect from moisture.

10.5. Incompatible Materials
Incompatible Materials
Strong acids and bases.

10.6. Hazardous Decomposition Products
Hazardous Decomposition Products
None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on Toxicological Effects
Acute Toxicity
Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation
No Data Available.

Eye contact
No Data Available.

Skin Contact
No Data Available.

Ingestion
No Data Available.

Numerical measures of toxicity

Unknown acute toxicity
20.84874 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
43.26416 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
7.30472 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
11.71826 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
20.65534 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane 110-82-7</td>
<td>= 12705 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 13.9 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Methylcyclohexane 108-87-2</td>
<td>&gt; 3200 mg/kg (Rat)</td>
<td>&gt;2920 mg/Kg bw (rat) 24 hour</td>
<td>&gt;23 mg/l (vapour) (Rat- OECD 403)</td>
</tr>
</tbody>
</table>
Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

- **Skin Corrosion/Irritation**: No information available.
- **Serious Eye Damage/Eye Irritation**: No information available.
- **Sensitization**: No information available.
- **Germ Cell Mutagenicity**: No information available.
- **Reproductive Toxicity**: No information available.
- **STOT - Single Exposure**: No information available.
- **STOT - Repeated Exposure**: No information available.
- **Target Organ Effects**: Blood, Central nervous system, Eyes, Liver, Peripheral Nervous System (PNS), Reproductive System, Respiratory system, Skin.
- **Aspiration Hazard**: No information available.
- **Carcinogenicity**: No information available.

**IARC (International Agency for Research on Cancer)**

- **Group 1 - Carcinogenic to Humans**
- **Group 3 - Not Classifiable as to Carcinogenicity in Humans**

### Section 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

**Ecotoxicity**

**Product Information**

Toxic to aquatic life with long lasting effects.

**Component Information**

Data obtained on the component(s) include

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane 110-82-7</td>
<td>EC50 72 h &gt; 9.3 mg/L (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h 23.03 - 42.07 mg/L (Pimephales promelas static) LC50 96 h 48.87 - 68.76 mg/L (Poecilia reticulata static) LC50 96 h 3.96 - 5.18 mg/L (Pimephales promelas flow-through)</td>
<td>EC50 24 h &gt; 400 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Methylcyclohexane 108-87-2</td>
<td>10 mg/l (Pseudokirchneriella subcapitata - OECD 201)</td>
<td>2.07 mg/l (Oryzias latipes )</td>
<td>3 mg/l (Daphnia magna - OECD 202)</td>
</tr>
<tr>
<td>Hexane 110-54-3</td>
<td>-</td>
<td>LC50 96 h 2.1 - 2.98 mg/L (Pimephales promelas flow-through)</td>
<td>EC50 24 h &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and Degradability

No information available.

#### 12.3. Bioaccumulative Potential

No information available.

#### 12.4. Mobility in Soil

No information available.

#### 12.5. Results of PBT and vPvB Assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other Adverse Effects
Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from Residues/Unused Products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORTATION INFORMATION

IMDG
- UN/ID No: UN1133
- Proper Shipping Name: Adhesives (Cyclohexane), Marine Pollutant
- Hazard Class: 3
- Packing Group: III
- Marine Pollutant: P
- EmS-No: F-E, S-D
- Special Provisions: 223, 955
- Limited Quantity (LQ): 5 L
- Description: UN1133, Adhesives (Cyclohexane), 3, III, (-15°C c.c.), Marine Pollutant

IATA
- UN/ID No: UN1133
- Proper Shipping Name: Adhesives
- Hazard Class: 3
- Packing Group: III
- ERG Code: 3L
- Limited Quantity (LQ): 10 L
- Special Provisions: A3
- Description: UN1133, Adhesives, 3, III

ADR
- UN/ID No: UN1133
- Proper Shipping Name: Adhesives, Environmentally Hazardous
- Hazard Class: 3
- Hazard Labels: 3
- Packing Group: III
- Description: UN1133, Adhesives, 3, III, (D/E), Environmentally Hazardous
- Environmental Hazard: yes
- Limited Quantity (LQ): 5 L
- Classification Code: F1
- Tunnel Restriction Code: (D/E)

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

Chronic Hazard Star Legend
* = Chronic Health Hazard

Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet
No information available

Key Literature References and Sources for Data
No information available
Prepared By
Product Safety & Regulatory Affairs

Revision Date
14-Jun-2017

Revision Note
Not applicable.

Training Advice
Provide adequate information, instruction, and training for operator

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet