

**BOSTIK 1456 LAMINATING Red**  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

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

### 1.1. Product Identifier

**Product Name** BOSTIK 1456 LAMINATING Red  
**Pure substance/mixture** Mixture

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

**Recommended use** Contact adhesives.  
**Uses advised against** Consumer use.

### 1.3. Details of the supplier of the safety data sheet

#### Company Name

Bostik New Zealand Limited  
19 Eastern Hutt Road Wingate,  
Lower Hutt, New Zealand  
Tel: 04-567 5119  
Fax: 04-567 5412

### 1.4. Emergency telephone number

**Emergency Telephone** 24 Hr: 0800 243 622  
+64 4 917 9888  
Poison Centre : 0800 764 766

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

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

|   |                                 |
|---|---------------------------------|
| Aspiration hazard                                     | Category 1 (6.1E <sup>9</sup> ) |
| Skin corrosion/irritation                             | Category 2 (6.3A)               |
| Serious eye damage/eye irritation                     | Category 2A (6.4A)              |
| Skin sensitization                                    | Category 1 (6.5B)               |
| Reproductive toxicity                                 | Category 2 (6.8B)               |
| Specific target organ toxicity - Single exposure      | Category 3 (6.9A)               |
| Specific target organ toxicity - Repeated exposure    | Category 2 (6.9B)               |
| Hazardous to the Aquatic Environment - Acute Hazard   | Category 2 (9.1D)               |
| Hazardous to the Aquatic Environment - Chronic Hazard | Category 2 (9.1B)               |
| Flammable liquids                                     | Category 2 (3.1B)               |

Classification in parenthesis is applicable for New Zealand Hazard Classification

### 2.2. Label Elements



**Signal word**

Danger

**Hazard statements**

# SAFETY DATA SHEET

**BOSTIK 1456 LAMINATING Red**  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

H411 - Toxic to aquatic life with long lasting effects  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H361 - Suspected of damaging fertility or the unborn child  
H315 - Causes skin irritation  
H304 - May be fatal if swallowed and enters airways  
H373 - May cause damage to organs through prolonged or repeated exposure  
H317 - May cause an allergic skin reaction  
H225 - Highly flammable liquid and vapor

## Prevention

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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  
P235 - Keep cool

## Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

## Skin

P333 + P313 - If skin irritation or rash 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

## Eyes

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

## Ingestion

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

## Fire

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

## Spill

P391 - Collect spillage

## Storage

P405 - Store locked up  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## Disposal

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

## 2.3. Other Hazards

# SAFETY DATA SHEET

BOSTIK 1456 LAMINATING Red  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Mixture

### 3.2 Mixtures

| Chemical name      | CAS No.   | Weight-% |
|--------------------|-----------|----------|
| Acetone            | 67-64-1   | 20- <40  |
| Cyclohexane        | 110-82-7  | 10 - <20 |
| Toluene            | 108-88-3  | 10 - <20 |
| Methylcyclohexane  | 108-87-2  | 5 - <10  |
| Hexane             | 110-54-3  | 1 - <5   |
| Zinc oxide         | 1314-13-2 | 0.1- <1  |
| Tall oil rosin     | 8052-10-6 | 0.1- <1  |
| 4-tert-Butylphenol | 98-54-4   | 0.1- <1  |

\*\*\* Any remaining ingredients are not hazardous

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | If medical advice is needed, have product container or label at hand.  |
| <b>Inhalation</b>                         | Remove to fresh air.   |
| <b>Skin contact</b>                       | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.   |
| <b>Eye contact</b>                        | 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. |
| <b>Ingestion</b>                          | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  |
| <b>Self-protection of the first aider</b> | 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 CO<sub>2</sub>, 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

# SAFETY DATA SHEET

BOSTIK 1456 LAMINATING Red  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

**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.

**Other information** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**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.

### 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** Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill for later disposal.

### 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, hot surfaces, sparks, open flames and other ignition sources. 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)

**Specific Use(s)** Contact adhesives.

# SAFETY DATA SHEET

**BOSTIK 1456 LAMINATING Red**  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

**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

| Chemical name                 | New Zealand   | Australia   | European Union                                 |
|-------------------------------|---|---|--|
| Acetone<br>67-64-1            | TWA: 500 ppm<br>TWA: 1185 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2375 mg/m <sup>3</sup> | 500 ppm TWA<br>1185 mg/m <sup>3</sup> TWA<br>1000 ppm STEL<br>2375 mg/m <sup>3</sup> STEL | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>    |
| Cyclohexane<br>110-82-7       | TWA: 100 ppm<br>TWA: 350 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 1050 mg/m <sup>3</sup>   | 100 ppm TWA<br>350 mg/m <sup>3</sup> TWA<br>300 ppm STEL<br>1050 mg/m <sup>3</sup> STEL   | TWA: 200 ppm<br>TWA: 700 mg/m <sup>3</sup>     |
| Toluene<br>108-88-3           | TWA: 50 ppm<br>TWA: 188 mg/m <sup>3</sup><br>Skin   | 50 ppm TWA<br>191 mg/m <sup>3</sup> TWA<br>150 ppm STEL<br>574 mg/m <sup>3</sup> STEL     | TWA: 50 ppm<br>TWA: 192 mg/m <sup>3</sup><br>* |
| Methylcyclohexane<br>108-87-2 | TWA: 400 ppm<br>TWA: 1610 mg/m <sup>3</sup>   | 400 ppm TWA<br>1610 mg/m <sup>3</sup> TWA   | -  |
| Hexane<br>110-54-3            | TWA: 20 ppm<br>TWA: 72 mg/m <sup>3</sup>  | 20 ppm TWA<br>72 mg/m <sup>3</sup> TWA  | TWA: 20 ppm<br>TWA: 72 mg/m <sup>3</sup>       |
| Zinc oxide<br>1314-13-2       | TWA: 10 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>           | 10 mg/m <sup>3</sup> TWA<br>5 mg/m <sup>3</sup> TWA<br>10 mg/m <sup>3</sup> STEL          | -  |

| Chemical name                 | ACGIH TLV  | NIOSH IDLH   | OSHA PEL  |
|-------------------------------|--|--|---|
| Acetone<br>67-64-1            | STEL: 500 ppm<br>TWA: 250 ppm  | IDLH: 2500 ppm<br>TWA: 250 ppm<br>TWA: 590 mg/m <sup>3</sup>   | TWA: 1000 ppm<br>TWA: 2400 mg/m <sup>3</sup>  |
| Cyclohexane<br>110-82-7       | TWA: 100 ppm   | IDLH: 1300 ppm<br>TWA: 300 ppm<br>TWA: 1050 mg/m <sup>3</sup>  | TWA: 300 ppm<br>TWA: 1050 mg/m <sup>3</sup>   |
| Toluene<br>108-88-3           | TWA: 20 ppm  | IDLH: 500 ppm<br>TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 560 mg/m <sup>3</sup>                                    | TWA: 200 ppm<br>Ceiling: 300 ppm  |
| Methylcyclohexane<br>108-87-2 | TWA: 400 ppm   | IDLH: 1200 ppm<br>TWA: 400 ppm<br>TWA: 1600 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 2000 mg/m <sup>3</sup>   |
| Hexane<br>110-54-3            | TWA: 50 ppm<br>S*  | IDLH: 1100 ppm<br>TWA: 50 ppm<br>TWA: 180 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1800 mg/m <sup>3</sup>   |
| Zinc oxide<br>1314-13-2       | STEL: 10 mg/m <sup>3</sup> respirable<br>particulate matter<br>TWA: 2 mg/m <sup>3</sup> respirable<br>particulate matter | IDLH: 500 mg/m <sup>3</sup><br>Ceiling: 15 mg/m <sup>3</sup> dust<br>TWA: 5 mg/m <sup>3</sup> dust and fume<br>STEL: 10 mg/m <sup>3</sup> fume | TWA: 5 mg/m <sup>3</sup> fume<br>TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction |

**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

# SAFETY DATA SHEET

BOSTIK 1456 LAMINATING Red  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

## PPE - Personal Protection Equipment

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin and body protection</b>       | Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.   |
| <b>Hand protection</b>                | 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.  |
| <b>Respiratory protection</b>         | 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. |
| <b>General hygiene considerations</b> | 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

|                       |                          |
|-----------------------|--------------------------|
| <b>Appearance</b>     | Fibers Liquid            |
| <b>Color</b>          | Red                      |
| <b>Odor</b>           | Solvent                  |
| <b>Odor threshold</b> | No information available |

| Property                               | Values                   | Remarks • Method |
|--|--------------------------|------------------|
| pH                                     | No data available        | Not applicable   |
| Melting point / freezing point         | No data available        |                  |
| Boiling point / boiling range          | 50 °C                    |                  |
| Flash point                            | -22 °C                   |                  |
| Evaporation rate                       | No data available        |                  |
| Flammability (solid, gas)              | No data available        |                  |
| Flammability Limit in Air              |                          |                  |
| Upper flammability or explosive limits | 9.7                      |                  |
| Lower flammability or explosive limits | 1.5                      |                  |
| Vapor pressure                         | No data available        |                  |
| Vapor density                          | No data available        |                  |
| Relative density                       | 0.8                      |                  |
| Water solubility                       | Slightly soluble         |                  |
| Solubility(ies)                        | No data available        |                  |
| Partition coefficient                  | No data available        |                  |
| Autoignition temperature               | No data available        |                  |
| Decomposition temperature              | No data available        |                  |
| Kinematic viscosity                    | No data available        |                  |
| Dynamic viscosity                      | No data available        |                  |
| Explosive properties                   | No information available |                  |
| Oxidizing properties                   | No information available |                  |

### 9.2. Other information

|                            |                          |
|----------------------------|--------------------------|
| <b>Softening Point</b>     | No information available |
| <b>Molecular weight</b>    | No information available |
| <b>Solvent content (%)</b> | No information available |
| <b>Solid content (%)</b>   | approx. 20               |
| <b>Density</b>             | 0.8 g/cm <sup>3</sup>    |
| <b>Bulk density</b>        | No information available |
| <b>VOC Content (%)</b>     | > 500 g/L                |

## Section 10: STABILITY AND REACTIVITY

# SAFETY DATA SHEET

BOSTIK 1456 LAMINATING Red  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

## 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.

Hazardous polymerization 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 Carbon oxides.

## 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.

| Chemical name                 | Oral LD50             | Dermal LD50                        | Inhalation LC50                   |
|-------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Acetone<br>67-64-1            | = 5800 mg/kg ( Rat )  | >15800 mg/Kg (rat)                 | = 79 mg/l( Rat ) 4 h              |
| Cyclohexane<br>110-82-7       | = 12705 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )            | > 9500 ppm ( Rat ) 4 h            |
| Toluene<br>108-88-3           | = 5580 mg/kg ( Rat )  | = 12000 mg/kg ( Rabbit )           | > 20 mg/L ( Rat ) 4 h             |
| Methylcyclohexane<br>108-87-2 | > 3200 mg/kg ( Rat )  | >2920 mg/Kg bw (rat) 24 hour       | >23 mg/l (vapour) (Rat- OECD 403) |
| Hexane<br>110-54-3            | = 25 g/kg ( Rat )     | = 3000 mg/kg ( Rabbit )            | = 48000 ppm ( Rat ) 4 h           |
| Zinc oxide<br>1314-13-2       | > 5000 mg/kg ( Rat )  | LD50 >2000 mg/Kg (Rat) (OECD 402)  | LC50 (4h) >5.7 mg/l               |
| Tall oil rosin<br>8052-10-6   | = 7600 mg/kg ( Rat )  | -                                  | -                                 |
| 4-tert-Butylphenol<br>98-54-4 | = 4000 mg/kg ( Rat )  | LD50 >5000 mg/kg (rabbit) OECD 402 | -                                 |

#### 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.

# SAFETY DATA SHEET

**BOSTIK 1456 LAMINATING Red**  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

|                                 |  |
|---------------------------------|--|
| <b>Germ cell mutagenicity</b>   | No information available.  |
| <b>Reproductive toxicity</b>    | Product is or contains a chemical which is a known or suspected reproductive hazard. |
| <b>STOT - single exposure</b>   | No information available.  |
| <b>STOT - repeated exposure</b> | No information available.  |
| <b>Target organ effects</b>     | liver, Eyes, kidney, blood, Peripheral Nervous System (PNS), retina, Skin.           |
| <b>Aspiration hazard</b>        | No information available.  |
| <b>Carcinogenicity</b>          | No information available.  |

| Chemical name | IARC    | China | Japan |
|---------------|---------|-------|-------|
| Toluene       | Group 3 | -     | -     |

IARC (International Agency for Research on Cancer) Group 2B - Possibly 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

| Chemical name                 | Algae/aquatic plants  | Fish  | Crustacea   |
|-------------------------------|---|---|---|
| Acetone<br>67-64-1            | -   | LC50 96 h 4.74 - 6.33 mL/L<br>(Oncorhynchus mykiss)   | EC50 48 h 10294 - 17704 mg/L<br>(Daphnia magna Static)                                |
| Cyclohexane<br>110-82-7       | EC50 72 h > 9.3 mg/L<br>(Pseudokirchnerella subcapitata)      | LC50: 23.03 - 42.07mg/L (96h,<br>Pimephales promelas) LC50:<br>48.87 - 68.76mg/L (96h, Poecilia<br>reticulata) LC50: 3.96 - 5.18mg/L<br>(96h, Pimephales promelas) LC50:<br>24.99 - 44.69mg/L (96h, Lepomis<br>macrochirus) | EC50: >400mg/L (24h, Daphnia<br>magna)  |
| Toluene<br>108-88-3           | EC50 72 h = 12.5 mg/L<br>(Pseudokirchneriella subcapitata)    | LC50 96 h 5.89 - 7.81 mg/L<br>(Oncorhynchus mykiss<br>flow-through) LC50 96 h = 5.8<br>mg/L (Oncorhynchus mykiss<br>semi-static)  | EC50: =11.5mg/L (48h, Daphnia<br>magna) EC50: 5.46 - 9.83mg/L<br>(48h, Daphnia magna) |
| Methylcyclohexane<br>108-87-2 | 10 mg/l (Pseudokirchneriella<br>subcapitata - OECD 201)       | 2.07 mg/l (Oryzias latipes)   | 3 mg/l (Daphnia magna - OECD<br>202)  |
| Hexane<br>110-54-3            | -   | LC50: 2.1 - 2.98mg/L (96h,<br>Pimephales promelas)  | EC50: >1000mg/L (24h, Daphnia<br>magna)   |
| Zinc oxide<br>1314-13-2       | LC 50 (72Hr) 0.136 mg/L                                       | LC50 (96h) =0.7 mg/L Fish (Danio<br>rerio)  | LC 50 (48Hr) =0.5 mg/l<br>(Ceriodaphnia dubia)  |
| Tall oil rosin<br>8052-10-6   | EC50: 185 - 217mg/L (72h,<br>Pseudokirchneriella subcapitata) | LC50: 100 - 200mg/L (96h,<br>Brachydanio rerio)   | EC50: 238 - 479mg/L (48h,<br>Daphnia magna)   |
| 4-tert-Butylphenol<br>98-54-4 | EC50: =11.2mg/L (72h,<br>Desmodesmus subspicatus)             | LC50: =6.9mg/L (96h, Cyprinus<br>carpio) LC50: 4.71 - 5.62mg/L<br>(96h, Pimephales promelas)  | EC50: 3.4 - 4.5mg/L (48h, Daphnia<br>magna) EC50: =3.9mg/L (48h,<br>Daphnia magna)    |

### 12.2. Persistence and degradability

No information available.

#### Component Information

##### Zinc oxide (1314-13-2)

| Method | Exposure time | Value | Results   |
|--------|---------------|-------|---|
|        |               |       | The methods for determining biodegradability are not applicable to inorganic substances |



# SAFETY DATA SHEET

BOSTIK 1456 LAMINATING Red  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

## 12.3. Bioaccumulative potential

No information available.

| Chemical name                 | Partition coefficient | Bioconcentration factor (BCF) |
|-------------------------------|-----------------------|-------------------------------|
| Acetone<br>67-64-1            | -0.24                 | 0.69                          |
| Cyclohexane<br>110-82-7       | 3.44                  | 167                           |
| Toluene<br>108-88-3           | 2.7                   | -                             |
| Methylcyclohexane<br>108-87-2 | -                     | 3.88                          |
| Tall oil rosin<br>8052-10-6   | 3.6                   | -                             |
| 4-tert-Butylphenol<br>98-54-4 | 2.44                  | 240                           |

## 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.

| Chemical name                 | PBT and vPvB assessment                                       |
|-------------------------------|---|
| Acetone<br>67-64-1            | The substance is not PBT / vPvB                               |
| Cyclohexane<br>110-82-7       | The substance is not PBT / vPvB                               |
| Toluene<br>108-88-3           | The substance is not PBT / vPvB PBT assessment does not apply |
| Methylcyclohexane<br>108-87-2 | The substance is not PBT / vPvB                               |
| Hexane<br>110-54-3            | The substance is not PBT / vPvB                               |
| Zinc oxide<br>1314-13-2       | The substance is not PBT / vPvB PBT assessment does not apply |
| 4-tert-Butylphenol<br>98-54-4 | The substance is not PBT / vPvB PBT assessment does not apply |

## 12.6. Other adverse effects

No information available.

### Endocrine Disruptor Information

| Chemical name      | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Endocrine disrupting potential |
|--------------------|--|--|--------------------------------|
| 4-tert-Butylphenol | Group II Chemical                        | -  | -                              |

## 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: TRANSPORT INFORMATION

IMDG

# SAFETY DATA SHEET

BOSTIK 1456 LAMINATING Red  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

|                            |  |
|----------------------------|--|
| UN number                  | UN1133   |
| Proper Shipping Name       | Adhesives (Cyclohexane), Marine Pollutant                              |
| Transport hazard class(es) | 3  |
| Packing group              | II   |
| Marine Pollutant           | P  |
| EmS-No.                    | F-E, S-D   |
| Limited Quantity (LQ)      | 5 L  |
| Description                | UN1133, Adhesives (Cyclohexane), 3, II, (-22°C c.c.), Marine Pollutant |

## IATA

|                            |                          |
|----------------------------|--------------------------|
| UN number                  | UN1133                   |
| Proper Shipping Name       | Adhesives                |
| Transport hazard class(es) | 3                        |
| Packing group              | II                       |
| ERG Code                   | 3L                       |
| Limited Quantity (LQ)      | 1 L                      |
| Special Provisions         | A3                       |
| Description                | UN1133, Adhesives, 3, II |

## ADR

|                            |  |
|----------------------------|--|
| UN Number                  | UN1133   |
| Proper Shipping Name       | Adhesives, Environmentally Hazardous                       |
| Transport hazard class(es) | 3  |
| Labels                     | 3  |
| Packing Group              | II   |
| Description                | UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous |
| Environmental hazards      | Yes  |
| Limited Quantity (LQ)      | 5 L  |
| Special Provisions         | 640C   |
| Classification Code        | F1   |
| Tunnel Restriction Code    | (D/E)  |

## Section 15: REGULATORY INFORMATION

### National Regulations

ERMA Group HSR002667

## Section 16: OTHER INFORMATION

### 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 30-Jul-2019

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 a 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.

# SAFETY DATA SHEET

**BOSTIK 1456 LAMINATING Red**  
Revision Number 3

Revision date 30-Jul-2019  
Supersedes Date: 27-Aug-2018

---

—  
**End of Safety Data Sheet**