

BOSTIK UNIGRIP 999 HR Revision Number 2.01 Revision Date 24-May-2018 Supersedes Date: 14-Jun-2017

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

1.1. Product Identifier

Product Name BOSTIK UNIGRIP 999 HR

Pure substance/mixture Mixture

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

Recommended useContact 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: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Aspiration toxicity	Category 1 (6.1E ^g)
Skin Corrosion/Irritation	Category 2 (6.3A)
Serious Eye Damage/Eye Irritation	Category 2 (6.4)
Reproductive toxicity	Category 2 (6.8B)
STOT - Single Exposure	Category 3 (f)
Specific target organ toxicity (repeated exposure)	Category 2 (6.9B)
Acute aquatic toxicity	Category 3 (9.1D)
Flammable Liquids	Category 2 (3.1B)

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

BOSTIK UNIGRIP 999 HR Revision Number 2.01

Revision Number 2.01 Supersedes Date: 14-Jun-2017

Revision Date 24-May-2018

- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure
- H402 Harmful to aquatic life
- H225 Highly flammable liquid and vapor

Precautionary Statements - 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
- 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/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
- P235 Keep cool

Precautionary Statements - Response

P321 - Specific treatment (see supplemental first aid instructions on this label)

Inhalation

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

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

Eves

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/physician

P331 - Do NOT induce vomiting

Fire

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

Precautionary Statements - Storage

P405 - Store locked up

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

Precautionary Statements - Disposal

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

2.3. Other Hazards

BOSTIK UNIGRIP 999 HR
Revision Number 2.01

Revision Number 2.01

Revision Date 24-May-2018

Supersedes Date: 14-Jun-2017

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Acetone	67-64-1	20- <40
Methyl ethyl ketone	78-93-3	20- <40
Toluene	108-88-3	10 - <20
Bayer		10 - <20
Silica, amorphous	7631-86-9	0.1- <1
Water	7732-18-5	0.1- <1
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	0.1- <1
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyph enyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester	6683-19-8	0.01 - < 0.1
2-Benzotriazolyl-4-methylphenol	2440-22-4	0.01 - < 0.1
Benzene, 2-isocvanato-1,3-bis(1-methylethyl)-	28178-42-9	<0.01

^{***} 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 In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. 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

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.

Unsuitable Extinguishing Media No information available.

Page 3/10

BOSTIK UNIGRIP 999 HR Revision Date 24-May-2018 **Revision Number** 2.01 Supersedes Date: 14-Jun-2017

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Chemical

5.3. Advice for firefighters

Special Protective Equipment for Wear self contained breathing apparatus for fire fighting if necessary.

Fire-fighters

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.

Use personal protection recommended in Section 8. Isolate the hazard area and deny For emergency responders

entry to unnecessary and unprotected personnel.

6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or **Environmental Precautions**

special waste collection point.

6.3. Methods and material for containment and cleaning up

Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect **Methods for Containment**

> 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).

Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill for later Methods for cleaning up

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/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

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work **General Hygiene Considerations**

area and clothing is recommended.

Storage Conditions Keep only in the original container/package in a cool well-ventilated place. Protect from

moisture.

Incompatible Materials Strong acids and bases

7.3. Specific end use(s)

No information available. Other Information

BOSTIK UNIGRIP 999 HR
Revision Number 2.01

Revision Number 2.01

Revision Date 24-May-2018

Supersedes Date: 14-Jun-2017

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	TWA: 500 ppm	500 ppm TWA	TWA: 500 ppm
67-64-1	TWA: 1185 mg/m ³	1185 mg/m ³ TWA	TWA: 1210 mg/m ³
	STEL: 1000 ppm	1000 ppm STEL	
	STEL: 2375 mg/m ³	2375 mg/m ³ STEL	
Methyl ethyl ketone	TWA: 150 ppm	150 ppm TWA	TWA: 200 ppm
78-93-3	TWA: 445 mg/m ³	445 mg/m ³ TWA	TWA: 600 mg/m ³
	STEL: 300 ppm	300 ppm STEL	STEL: 300 ppm
	STEL: 890 mg/m ³	890 mg/m ³ STEL	STEL: 900 mg/m ³
Toluene	TWA: 50 ppm	50 ppm TWA	TWA: 50 ppm
108-88-3	TWA: 188 mg/m ³	191 mg/m³ TWA	TWA: 192 mg/m ³
	Skin	150 ppm STEL	STEL: 100ppm
		574 mg/m ³ STEL	STEL: 384mg/m ³
			S*
Silica, amorphous	-	2 mg/m³ TWA	-
7631-86-9			
Benzene,	TWA: 0.02 mg/m ³	0.02 mg/m³ TWA	-
2-isocyanato-1,3-bis(1-methylethyl	STEL: 0.07 mg/m ³	0.07 mg/m ³ STEL	
)-	_		
28178-42-9			

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL
Acetone	STEL: 500 ppm	IDLH: 2500 ppm	TWA: 1000 ppm
67-64-1	TWA: 250 ppm	TWA: 250 ppm	TWA: 2400 mg/m ³
		TWA: 590 mg/m ³	
Methyl ethyl ketone	STEL: 300 ppm	IDLH: 3000 ppm	TWA: 200 ppm
78-93-3	TWA: 200 ppm	TWA: 200 ppm	TWA: 590 mg/m ³
		TWA: 590 mg/m ³	-
		STEL: 300 ppm	
		STEL: 885 mg/m ³	
Toluene	TWA: 20 ppm	IDLH: 500 ppm	TWA: 200 ppm
108-88-3		TWA: 100 ppm	Ceiling: 300 ppm
		TWA: 375 mg/m ³	
		STEL: 150 ppm	
		STEL: 560 mg/m ³	
Silica, amorphous	-	IDLH: 3000 mg/m ³	TWA: 20 mppcf
7631-86-9		TWA: 6 mg/m³	: (80)/(% SiO2) mg/m ³ TWA

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available

(PNEC)

OTHER INFORMATION No information available

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

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.

BOSTIK UNIGRIP 999 HR Revision Date 24-May-2018 **Revision Number** 2.01 Supersedes Date: 14-Jun-2017

Wear suitable chemical resistant gloves. The selection of suitable gloves does not only **Hand Protection**

depend on the material, but also on further marks of quality and various manufacturers. No protective equipment is needed under normal use conditions. Respiratory protection **Respiratory Protection**

required in insufficiently ventilated working areas and during spraying. An air-fed mask,

Not applicable for liquids

or for short periods of work, a combination of professional filter is recommended.

General Hygiene Do not eat, drink or smoke when using this product. Wash hands thoroughly after Considerations 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

Viscosity Liquid Medium **Appearance** Color Clear to slightly cloudy

Solvent Odor

Odor Threshold No information available

Property Values Remarks • Method

рΗ No information available No information available Melting point / freezing point approx 56 °C / 132.8 °F approx -17 °C / 1.4 °F Boiling point / boiling range **Flash Point** No information available **Evaporation Rate** No information available

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: 12.2

Lower flammability limit: 2.0 **Vapor Pressure** No information available **Vapor Density** No information available **Relative Density** No information available

Water Solubility Partially soluble

Solubility in Other Solvents No information available **Partition Coefficient** No information available No information available **Autoignition Temperature Decomposition Temperature** No information available **Kinematic Viscosity** No information available **Dynamic Viscosity** No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

9.2. Other information

No information available **Softening Point Molecular Weight** No information available Solvent content (%) No information available

Solid content (%) approx 18 **Density** 0.86 g/cm³

Bulk Density No information available

VOC > 300 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions. Reactivity

10.2. Chemical stability

Stability Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

BOSTIK UNIGRIP 999 HRRevision Date 24-May-2018Revision Number 2.01Supersedes Date: 14-Jun-2017

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.

InhalationNo data available.Eye contactNo data available.Skin ContactNo data available.IngestionNo data available.

Numerical measures of toxicity

Unknown acute toxicity

0.090005 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0.090005 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

35.918955 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

65.894955 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0.090005 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	= 5800 mg/kg (Rat)	>15800 mg/Kg (rat)	= 79 mg/l(Rat) 4 h
Methyl ethyl ketone 78-93-3	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg(Rabbit)	> 20 mg/L (Rat) 4 h
Silica, amorphous 7631-86-9	= 7900 mg/kg (Rat)	> 5000 mg/kg(Rabbit)	> 2.2 mg/L (Rat) 1 h
Water 7732-18-5	> 90 mL/kg(Rat)	-	-
Bis(2,6-diisopropylphenyl)carbodii mide 2162-74-5	300<=LD50>=2000 mg/kg (Rat)	LD50 >2000 mg/Kg (Rat)	-
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydrox y-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl))-4-hydroxyphenyl]-1-oxopropoxy] methyl]-1,3-propanediyl ester 6683-19-8	>5000 mg/Kg (Rat) OECD 401	>3160 mg/Kg (Rabbit)	> 46 mg/L (Rat)1 h
2-Benzotriazolyl-4-methylphenol 2440-22-4	LD50 >10000 mg/kg (Rat)(OECD 423)	LC50 >2000 mg/kg (Rat) (OECD 402)	> 1420 mg/m³ (Rat) 4 h
Benzene, 2-isocyanato-1,3-bis(1-methylethyl)- 28178-42-9	= 1414 mg/kg(Rat)	-	= 47 mg/m³ (Rat) 4 h

BOSTIK UNIGRIP 999 HRRevision Date 24-May-2018Revision Number 2.01Supersedes Date: 14-Jun-2017

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Sensitization
Germ Cell Mutagenicity

No information available.
No information available.
No information available.

Reproductive Toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

STOT - Single ExposureSTOT - Repeated Exposure
No information available.
No information available.

Target Organ Effects Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.

Aspiration hazardCarcinogenicity
No information available.
No information available.

Chemical Name	IARC	China	Japan
Toluene	Group 3	-	-
Silica, amorphous	Group 3	-	-

IARC (International Agency for

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Research on Cancer)

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Harmful to aquatic life.

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)
Methyl ethyl ketone 78-93-3	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50 96 h 3130 - 3320 mg/L (Pimephales promelas flow-through)	EC50 48 h > 308 mg/L (Daphnia magna)
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 48 h 5.46 - 9.83 mg/L (Daphnia magna Static) EC50 48 h = 11.5 mg/L (Daphnia magna)
Silica, amorphous 7631-86-9	EC50 72 h = 440 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 5000 mg/L (Brachydanio rerio static)	EC50 48 h = 7600 mg/L (Ceriodaphnia dubia)
Bis(2,6-diisopropylphenyl)carbodii mide 2162-74-5	-	LC50 = 6727 mg/L Fish (Danio rerio) (OECD 203)	-
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydrox y-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl))-4-hydroxyphenyl]-1-oxopropoxy] methyl]-1,3-propanediyl ester 6683-19-8	EC50 72 h > 100 mg/L (Desmodesmus subspicatus)	LC50 96 h > 100 mg/L (Brachydanio rerio) OECD 203	EC50 24 h > 86 mg/L (Daphnia magna) OECD 202
2-Benzotriazolyl-4-methylphenol 2440-22-4	-	LC50 (96h) >0.17 mg/L (Oncorhynchus mykiss) Semi-static (OECD 203)	EC50 (24h) >1000 mg/L (Daphnia magna) Static (OECD 202)
Benzene, 2-isocyanato-1,3-bis(1-methylethyl)- 28178-42-9	-	LC50 >100 mg/L Fish (Danio rerio)	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

BOSTIK UNIGRIP 999 HR
Revision Number 2.01

Revision Number 2.01

Revision Date 24-May-2018

Supersedes Date: 14-Jun-2017

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

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

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

Products

UN Number UN1133 Proper Shipping Name Adhesives

Transport hazard class(es) 3
Packing Group ||

EmS-No F-E, S-D Limited Quantity (LQ) 5 L

Description UN1133, Adhesives, 3, II, (-17°C c.c.)

IATA

UN/ID No 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/ID No UN1133

Proper Shipping Name Adhesives, Environmentally Hazardous

Transport hazard class(es) 3 Labels 3 Packing Group II

Description UN1133, Adhesives, Environmentally Hazardous, 3, II, (D/E)

Environmental Hazard Yes
Limited Quantity (LQ) 5 L
Special Provisions 640C
Classification Code F1
Tunnel Restriction Code (D/E)

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

BOSTIK UNIGRIP 999 HR Revision Number 2.01

·

Revision Date 24-May-2018

Supersedes Date: 14-Jun-2017

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 24-May-2018

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.

End of Safety Data Sheet