

BOSTIK TRIPLE 5 BSR Natural Revision Number 1

Revision Date 16-Jun-2017 Supersedes Date: 28-May-2018

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

1.1. Product Identifier

Product Name Pure substance/mixture BOSTIK TRIPLE 5 BSR Natural 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: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Aspiration toxicity	Category 1 (6.1E 9)
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)
STOT - Single Exposure	Category 3 (^f)
Specific target organ toxicity (repeated exposure)	Category 2 (6.9B)
Acute aquatic toxicity	Category 2 (9.1D)
Chronic aquatic toxicity	Category 2 (9.1B)
Flammable Liquids	Category 2 (3.1B)

Classification in parenthesis is applicable for New Zealand Hazard Classification

ERMA Group

HSR002662

2.2. Label Elements



Hazard statements

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H336 - May cause drowsiness or dizziness H411 - Toxic to aquatic life with long lasting effects H361 - Suspected of damaging fertility or the unborn child H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H373 - May cause damage to organs through prolonged or repeated exposure 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 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/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 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 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 Spill P391 - Collect spillage **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

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Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Mixture

3.2 Mixtures

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

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	d effects, both acute and delayed
Symptoms	None known.
4.3. Indication of any immediate m	nedical 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 N	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 Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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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.
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 cont	ainment 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/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, in	ncluding 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

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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	
Toluene	TWA: 50 ppm	50 ppm TWA	TWA: 50 ppm
108-88-3	TWA: 188 mg/m ³	191 mg/m ³ TWA	TWA: 192 mg/m ³
	Skin	150 ppm STEL	STEL: 100ppm
		574 mg/m ³ STEL	STEL: 384mg/m ³
		_	S*
Cyclohexane	TWA: 100 ppm	100 ppm TWA	TWA: 200 ppm
110-82-7	TWA: 350 mg/m ³	350 mg/m ³ TWA	TWA: 700 mg/m ³
	STEL: 300 ppm	300 ppm STEL	_
	STEL: 1050 mg/m ³	1050 mg/m ³ STEL	
Methylcyclohexane	TWA: 400 ppm	400 ppm TWA	-
108-87-2	TWA: 1610 mg/m ³	1610 mg/m ³ TWA	
Hexane	TWA: 20 ppm	20 ppm TWA	TWA: 20 ppm
110-54-3	TWA: 72 mg/m ³	72 mg/m ³ TWA	TWA: 72 mg/m ³
Zinc oxide	TWA: 10 mg/m ³	10 mg/m³ TWA	-
1314-13-2	TWA: 3 mg/m ³	5 mg/m³ TWA	
	STEL: 10 mg/m ³	10 mg/m ³ STEL	

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	_
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	
Cyclohexane	TWA: 100 ppm	IDLH: 1300 ppm	TWA: 300 ppm
110-82-7		TWA: 300 ppm	TWA: 1050 mg/m ³
		TWA: 1050 mg/m ³	_
Methylcyclohexane	TWA: 400 ppm	IDLH: 1200 ppm	TWA: 500 ppm
108-87-2		TWA: 400 ppm	TWA: 2000 mg/m ³
		TWA: 1600 mg/m ³	_
Hexane	TWA: 50 ppm	IDLH: 1100 ppm	TWA: 500 ppm
110-54-3	S*	TWA: 50 ppm	TWA: 1800 mg/m ³
		TWA: 180 mg/m ³	_
Zinc oxide	STEL: 10 mg/m ³ respirable	IDLH: 500 mg/m ³	TWA: 5 mg/m ³ fume
1314-13-2	particulate matter	Ceiling: 15 mg/m ³ dust	TWA: 15 mg/m ³ total dust
	TWA: 2 mg/m ³ respirable	TWA: 5 mg/m ³ dust and fume	TWA: 5 mg/m ³ respirable fraction
	particulate matter	STEL: 10 mg/m ³ fume	- '

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).

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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

Appearance Color Odor Odor Threshold	Viscosity Liquid Medium Light yellow or brown Aromatic Solvent No information available	
Property pH Melting point / freezing point Boiling point / boiling range Flash Point Evaporation Rate Flammability (solid, gas) Flammability Limit in Air	Values No information available No information available approx 50 °C / 122 °F approx -22 °C / -7.6 °F No information available No information available	Remarks • Method
Upper flammability limit: Lower flammability limit: Vapor Pressure Vapor Density Relative Density Water Solubility Solubility in Other Solvents Partition Coefficient Autoignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	9.7 1.5 No information available No information available No information available Partially soluble No information available No information available	
9.2. Other information Softening Point Molecular Weight Solvent content (%) Solid content (%) Density Bulk Density VOC	No information available No information available No information available approx 19.5 0.84 g/cm ³ No information available > 300 g/L	

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

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Possibility of Hazardous Reactions None under normal processing.		
None under normal processing.		
Keep away from heat, sparks and flames. Protect from moisture.		
Strong acids and bases.		
10.6. 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.

Numerical measures of toxicity

Unknown acute toxicity

9.50407 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

14.80379 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

16.2856 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

21.77541 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

25.9735 % 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
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg(Rabbit)	> 20 mg/L (Rat)4 h
Cyclohexane 110-82-7	= 12705 mg/kg(Rat)	> 2000 mg/kg (Rabbit)	> 9500 ppm (Rat)4 h
Methylcyclohexane 108-87-2	> 3200 mg/kg (Rat)	>2920 mg/Kg bw (rat) 24 hour	>23 mg/l (vapour) (Rat- OECD 403)
Hexane 110-54-3	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat)4 h
Tall oil rosin 8052-10-6	= 7600 mg/kg (Rat)	-	-
Zinc oxide 1314-13-2	> 5000 mg/kg (Rat)	LD50 >2000 mg/Kg (Rat) (OECD 402)	LC50 (4h) >5.7 mg/l
4-tert-Butylphenol 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 Serious Eye Damage/Eye Irritation No information available. Sensitization Germ Cell Mutagenicity **Reproductive Toxicity STOT - Single Exposure**

No information available. No information available. No information available. Product is or contains a chemical which is a known or suspected reproductive hazard. No information available. Page 7/10

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STOT - Repeated Exposure Target Organ Effects Aspiration hazard Carcinogenicity	No information available. Central nervous system, I Respiratory system, Skin. No information available. No information available.	Eyes, Kidney, Liver, Peripheral I	Nervous System (PNS),
Chemical Name	IARC	China	Japan
Toluene	Group 3	-	-

IARC (International Agency for Research on Cancer)
Group 3
 -</td

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	-	LC50 96 h 4.74 - 6.33 mL/L	EC50 48 h 10294 - 17704 mg/L
67-64-1		(Oncorhynchus mykiss)	(Daphnia magna Static)
Toluene	EC50 72 h = 12.5 mg/L	LC50 96 h 5.89 - 7.81 mg/L	EC50 48 h 5.46 - 9.83 mg/L
108-88-3	(Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss	(Daphnia magna Static) EC50 48 h
		flow-through) LC50 96 h = 5.8	= 11.5 mg/L (Daphnia magna)
		mg/L (Oncorhynchus mykiss semi-static)	
Cyclohexane	EC50 72 h > 9.3 mg/L	LC50 96 h 23.03 - 42.07 mg/L	EC50 24 h > 400 mg/L (Daphnia
110-82-7	(Pseudokirchnerella subcapitata)	(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) LC50 96 h 24.99 -	
		44.69 mg/L (Lepomis macrochirus	
Marthadaraalah assaa	40 mm// (De surdet inches mielle	static)	0 mail (Darkais many OFOD
Methylcyclohexane 108-87-2	10 mg/l (Pseudokirchneriella	2.07 mg/l (Oryzias latipes)	3 mg/l (Daphnia magna - OECD 202)
Hexane	subcapitata - OECD 201)	LC50 96 h 2.1 - 2.98 mg/L	EC50 24 h > 1000 mg/L (Daphnia
110-54-3	-	(Pimephales promelas	magna)
110-34-3		flow-through)	magna)
Tall oil rosin	EC50 72 h 185 - 217 mg/L	LC50 96 h 100 - 200 mg/L	EC50 48 h 238 - 479 mg/L
8052-10-6	(Pseudokirchneriella subcapitata)	(Brachydanio rerio static)	(Daphnia magna)
Zinc oxide	LC 50 (72Hr) 0.136 mg/L	LC50 (96h) =0.7 mg/L Fish (Danio	LC 50 (48Hr) =0.5 mg/l
1314-13-2		rerio)	(Ceriodaphnia dubia)
4-tert-Butylphenol	EC50 72 h = 11.2 mg/L	LC50 96 h = 6.9 mg/L (Cyprinus	EC50 48 h = 3.9 mg/L (Daphnia
98-54-4	(Desmodesmus subspicatus)	carpio static) LC50 96 h 4.71 -	magna) EC50 48 h 3.4 - 4.5 mg/L
		5.62 mg/L (Pimephales promelas	(Daphnia magna Static)
		flow-through)	

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

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

12.6. Other adverse effects

No information available.

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disrupters 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	Disposal should be in accordance with applicable regional, national and local laws and
Products	regulations.

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

Section 14: TRANSPORTATION INFORMATION

IMDG	
UN Number	UN1133
Proper Shipping Name	Adhesives (Cyclohexane), Marine Pollutant
Transport hazard class(es) Packing Group	3 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
ΙΑΤΑ	
UN/ID No	UN1133
Proper Shipping Name	Adhesives
Transport hazard class(es)	3
Packing Group	
ERG Code	3L 1 L
Limited Quantity (LQ) 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	
Description Environmental Hazard	UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous 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

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	16-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 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