

BOSTIK 1181S SPRAYABLE NATURAL

Revision Number 2

Revision Date 27-May-2018 Supersedes Date: 01-Jun-2017

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

1.1. Product Identifier

Product Name BOSTIK 1181S SPRAYABLE NATURAL

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, This article contains hazardous substances or mixtures intended to be

released under normal or reasonably foreseeable conditions of 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 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



Signal Word

DANGER

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Hazard statements

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H304 - May be fatal if swallowed and enters airways

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

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/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	20- <40
Cyclohexane	110-82-7	5 - <10
Methylcyclohexane	108-87-2	1 - <5
Hexane	110-54-3	1 - <3
Zinc oxide	1314-13-2	0.1- <1
Tall oil rosin	8052-10-6	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 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

See Section 12: ECOLOGICAL INFORMATION. Section 7: HANDLING AND Reference to other sections

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

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).

Chemical

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5.3. Advice for firefighters

Fire-fighters

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

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Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate **Personal Precautions**

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

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

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). 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

See Section 12: ECOLOGICAL INFORMATION Reference to other sections

Section 7: HANDLING AND STORAGE

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take Advice on safe handling

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. 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

See Section 12: ECOLOGICAL INFORMATION. Section 7: HANDLING AND Reference to other sections

STORAGE. Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

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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/m³ TWA	TWA: 1210 mg/m ³
	STEL: 1000 ppm	1000 ppm STEL	
	STEL: 2375 mg/m ³	2375 mg/m³ STEL	
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*
Cyclohexane	TWA: 100 ppm	100 ppm TWA	TWA: 200 ppm
110-82-7	TWA: 350 mg/m ³	350 mg/m³ 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/m³ 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/m³ 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/m³ fume
1314-13-2	particulate matter	Ceiling: 15 mg/m ³ dust	TWA: 15 mg/m³ total dust
	TWA: 2 mg/m³ respirable	TWA: 5 mg/m ³ dust and fume	TWA: 5 mg/m³ 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).

Skin and Body Protection Wear suitable protective clothing. No special technical protective measures are

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Respiratory Protection

General Hygiene

Considerations

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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. No protective equipment is needed under normal use conditions. Respiratory protection

Not applicable for liquids

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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.

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 Viscosity Liquid Medium

Light yellow Color Odor Aromatic Solvent **Odor Threshold** No information available

Property Values Remarks • Method

No information available pН Melting point / freezing point No information available No information available Boiling point / boiling range Flash Point approx -22 °C / -7.6 °F **Evaporation Rate** No information available No information available

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: 9.3 Lower flammability limit: 1.4

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 **Autoignition Temperature** No information available **Decomposition Temperature** No information available **Kinematic Viscosity** No information available **Dvnamic Viscosity** No information available **Explosive Properties** No information available No information available **Oxidizing Properties**

9.2. Other information

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

Solid content (%) approx 22 **Density** 0.90 g/cm³

Bulk Density No information available

> 300 g/LVOC

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions Stability

10.3. Possibility of hazardous reactions

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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

Carbon oxides.

products

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

3.49088 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

17.71268 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

10.38601 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

15.08702 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

18.68191 % 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
Zinc oxide 1314-13-2	> 5000 mg/kg (Rat)	LD50 >2000 mg/Kg (Rat) (OECD 402)	LC50 (4h) >5.7 mg/l
Tall oil rosin 8052-10-6	= 7600 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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, Peripheral Nervous System (PNS),

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Respiratory system, Skin.

Aspiration hazard No information available. Carcinogenicity No information available.

Chemical Name	IARC	China	Japan
Toluene	Group 3	-	-

IARC (International Agency for

Research on Cancer)

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	-	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	magna)
		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	
		static)	
Methylcyclohexane	10 mg/l (Pseudokirchneriella	2.07 mg/l (Oryzias latipes)	3 mg/l (Daphnia magna - OECD
108-87-2	subcapitata - OECD 201)	3 \ , , , , ,	202)
Hexane	-	LC50 96 h 2.1 - 2.98 mg/L	EC50 24 h > 1000 mg/L (Daphnia
110-54-3		(Pimephales promelas	magna)
		flow-through)	
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)
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)

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

No information available.

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Endocrine Disruptor

Information

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

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regulations.

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

Section 14: TRANSPORTATION INFORMATION

IMDG

Products

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

<u>IATA</u>

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

<u>ADR</u>

UN/ID No 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 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

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

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Revision Note Not applicable.

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

Disclaimer

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End of Safety Data Sheet