

BOSTIK FR DUCT SEALER
 Revision Number 2

Revision Date 28-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 FR DUCT SEALER
Pure substance/mixture Mixture

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

Recommended use Sealant.
Uses advised against Adhesives.

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)
Skin sensitization	Category 1 (6.5B)
Reproductive toxicity	Category 2 (6.8B)
STOT - Single Exposure	Category 3 (!)
Specific target organ toxicity (repeated exposure)	Category 2 (6.9B)
Acute aquatic toxicity	Category 1 (9.1A)
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

Hazard statements

H411 - Toxic to aquatic life with long lasting effects

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

H361 - Suspected of damaging fertility or the unborn child
H336 - May cause drowsiness or dizziness
H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H362 - May cause harm to breast-fed children
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

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

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Toluene	108-88-3	20- <40
Alkanes, C14-17, chloro	85535-85-9	5 - <10
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

General Advice	If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air.
Skin Contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-Protection of the First Aider	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

4.4. Reference to Other Sections

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

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

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/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ventilating/ lighting/ equipment.

7.2. Conditions for safe storage, including any incompatibilities

General Hygiene Considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

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

Incompatible Materials Strong acids and bases

7.3. Specific end use(s)

Other Information No information available.

7.4. References to Other Sections

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

8.1. Control parameters

Exposure Limits

Chemical Name	New Zealand	Australia	European Union
Toluene 108-88-3	TWA: 50 ppm TWA: 188 mg/m ³ Skin	50 ppm TWA 191 mg/m ³ TWA 150 ppm STEL 574 mg/m ³ STEL	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100ppm STEL: 384mg/m ³ S*
Zinc oxide 1314-13-2	TWA: 10 mg/m ³ TWA: 3 mg/m ³ STEL: 10 mg/m ³	10 mg/m ³ TWA 5 mg/m ³ TWA 10 mg/m ³ STEL	-

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL
Toluene 108-88-3	TWA: 20 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 200 ppm Ceiling: 300 ppm
Zinc oxide 1314-13-2	STEL: 10 mg/m ³ respirable particulate matter TWA: 2 mg/m ³ respirable particulate matter	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust TWA: 5 mg/m ³ dust and fume STEL: 10 mg/m ³ fume	TWA: 5 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ 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

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.
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	Paste Viscous
Color	Gray
Odor	Aromatic Solvent
Odor Threshold	No information available

Property	Values	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

Boiling point / boiling range	approx 110 °C / 230 °F	
Flash Point	approx 4 °C / 39.2 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper flammability limit:	7.1	
Lower flammability limit:	1.2	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water Solubility	Insoluble in water	
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	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

9.2. Other information

Softening Point	No information available
Molecular Weight	No information available
Solvent content (%)	No information available
Solid content (%)	approx 68
Density	1.28 g/cm ³
Bulk Density	No information available
VOC	> 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

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

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

Inhalation	information.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Numerical measures of toxicity

Unknown acute toxicity

- 37.79580182 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 56.65910182 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 43.88826182 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 43.88826182 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 43.88826182 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	> 20 mg/L (Rat) 4 h
Alkanes, C14-17, chloro 85535-85-9	> 4000 mg/kg (rat)	> 2000 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
Tall oil rosin 8052-10-6	= 7600 mg/kg (Rat)	-	-
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	No information available.
Serious Eye Damage/Eye Irritation	No information available.
Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Target Organ Effects	Central nervous system, Eyes, Kidney, Liver, Lungs, 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)	<i>Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans</i>		

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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)
Alkanes, C14-17, chloro 85535-85-9	-	LC50 48 h > 500 mg/L (Leuciscus idus static)	EC50 (48h) = 0.0059 mg/l (Daphnia magna) OECD 202

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

Zinc oxide 1314-13-2	LC 50 (72Hr) 0.136 mg/L	LC50 (96h) =0.7 mg/L Fish (Danio rerio)	LC 50 (48Hr) =0.5 mg/l (Ceriodaphnia dubia)
Tall oil rosin 8052-10-6	EC50 72 h 185 - 217 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 100 - 200 mg/L (Brachydanio rerio static)	EC50 48 h 238 - 479 mg/L (Daphnia magna)
4-tert-Butylphenol 98-54-4	EC50 72 h = 11.2 mg/L (Desmodesmus subspicatus)	LC50 96 h = 6.9 mg/L (Cyprinus carpio static) LC50 96 h 4.71 - 5.62 mg/L (Pimephales promelas flow-through)	EC50 48 h = 3.9 mg/L (Daphnia magna) EC50 48 h 3.4 - 4.5 mg/L (Daphnia magna Static)

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.

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Alkanes, C14-17, chloro	Group III Chemical	-	-
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: TRANSPORTATION INFORMATION

IMDG

UN Number UN1133
Proper Shipping Name Adhesives (Alkanes, C14-17, chloro), Marine Pollutant
Transport hazard class(es) 3
Packing Group III
Marine Pollutant P
EmS-No F-E, S-D
Special Provisions 223, 955
Limited Quantity (LQ) 5 L
Description UN1133, Adhesives (Alkanes, C14-17, chloro), 3, III, Marine Pollutant

IATA

UN/ID No UN1133
Proper Shipping Name Adhesives
Transport hazard class(es) 3
Packing Group III
ERG Code 3L
Limited Quantity (LQ) 10 L

Safety Data Sheet

BOSTIK FR DUCT SEALER
Revision Number 2

Revision Date 28-May-2018
Supersedes Date: 01-Jun-2017

Special Provisions Description	A3 UN1133, Adhesives, 3, III
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ADR

UN/ID No	UN1133
Proper Shipping Name	Adhesives, Environmentally Hazardous
Transport hazard class(es)	3
Labels	3
Packing Group	III
Description	UN1133, Adhesives, 3, III, (D/E), Environmentally Hazardous
Environmental Hazard	Yes
Limited Quantity (LQ)	5 L
Classification Code	F1
Tunnel Restriction Code	(D/E)

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

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 28-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