

BOSTIK(R) BEARING LUBRICANT
 Revision Number 1

Revision Date 06-Dec-2018
 Supersedes Date: 06-Dec-2018

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

1.1. Product Identifier

Product Name BOSTIK(R) BEARING LUBRICANT
Pure substance/mixture Mixture

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

Recommended use lubricant.
Uses advised against No information available.

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

Manufacturer

Bostik Inc.
 11320 W. Watertown Plank Road
 Wauwatosa, Wisconsin 53226 USA
 Phone: +1 (800) 843-0844 (Domestic Toll Free)
 Phone: +1 (414) 774-2250 (International)
 Fax: +1 (414) 774-8075

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 toxicity	Category 1 (6.1E ⁹)
Skin corrosion/irritation	Category 2 (6.3A)
Serious eye damage/eye irritation	Category 2A (6.4A)
Reproductive toxicity	Category 1B (6.8A)
STOT - single exposure	Category 3 (†)
Acute aquatic toxicity	Category 1 (9.1A)
Chronic aquatic toxicity	Category 1 (9.1A)
Aerosols	Category 1

Classification in parenthesis is applicable for New Zealand Hazard Classification

ERMA Group HSR002515

2.2. Label Elements



Signal word

DANGER

Precautionary Statements - Prevention

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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
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash 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

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No.	Weight-%
Acetone	67-64-1	40 - <80
1,1-Difluoroethane	75-37-6	20- <40
2,2,4-Trimethylpentane	540-84-1	10 - <20
Naphtha, petroleum, light alkylate	64741-66-8	1 - <5
1-Decene, homopolymer, hydrogenated	68037-01-4	1 - <3
Ethylbenzene	100-41-4	0.1- <1
Tricresyl phosphate	1330-78-5	0.1- <1

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Inhalation

Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

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Skin contact	Wash off immediately with plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required.

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 Keep victim warm and quiet. Treat symptomatically.

4.4. Reference to Other Sections

Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO2. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Some may burn but none ignite readily. Ruptured cylinders may rocket. Extremely flammable.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Other information Ventilate the area.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

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6.3. Methods and material for containment and cleaning up

Methods for containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

Methods for cleaning up Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

6.4. Reference to other sections

Reference to other sections Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials No information available

7.3. Specific end use(s)

Other information No information available.

7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS. Section 10: STABILITY AND REACTIVITY.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Chemical Name	New Zealand	Australia	European Union
Acetone 67-64-1	TWA: 500 ppm TWA: 1185 mg/m ³ STEL: 1000 ppm STEL: 2375 mg/m ³	500 ppm TWA 1185 mg/m ³ TWA 1000 ppm STEL 2375 mg/m ³ STEL	TWA: 500 ppm TWA: 1210 mg/m ³
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³	100 ppm TWA 434 mg/m ³ TWA 125 ppm STEL 543 mg/m ³ STEL	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ *

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL
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Acetone 67-64-1	STEL: 500 ppm TWA: 250 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³
2,2,4-Trimethylpentane 540-84-1	TWA: 300 ppm	-	-
Ethylbenzene 100-41-4	TWA: 20 ppm	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	TWA: 100 ppm TWA: 435 mg/m ³

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 Aerosol
Color Colorless
Odor Solvent
Odor Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash Point	-50 °C / -58 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability or explosive limits	No information available	
Lower flammability or explosive limits	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water Solubility	No information available	
Solubility in Other Solvents	No information available	

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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. 6.9
Density	0.810 g/ml
Bulk Density	No information available
VOC (volatile organic compound)	< 20 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

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 Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

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

29.00786 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
29.00786 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

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48.63786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.63786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
30.87786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

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
2,2,4-Trimethylpentane 540-84-1	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 14.38 mg/L (Rat) 4 h
Naphtha, petroleum, light alkylate 64741-66-8	> 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 6.31 mg/L (Rat) 4 h
1-Decene, homopolymer, hydrogenated 68037-01-4	LD50 >2000 mg/Kg (Rat)	LD50 >2000 mg/Kg (Rat)	-
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 1432 mg/L (Rat) 4 h
Tricresyl phosphate 1330-78-5	> 20000 mg/kg (Rat)	=3700 mg/Kg (Rat)	> 5.2 mg/L (Rat) 4 h

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	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Central nervous system, Eyes, Respiratory system, Skin.
Aspiration hazard	No information available.
Carcinogenicity	The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.

Chemical Name	IARC	China	Japan
Ethylbenzene	Group 2B	-	Group 2B

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. Very 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 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)
Naphtha, petroleum, light alkylate 64741-66-8	EC50 72 h = 6.4 mg/L (Pseudokirchneriella subcapitata)	-	LC50: =2mg/L (48h, Mysidopsis bahia)
Ethylbenzene 100-41-4	EC50 72 h 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 4.2 mg/L (Oncorhynchus mykiss semi-static)	EC50: 1.8 - 2.4mg/L (48h, Daphnia magna)
Tricresyl phosphate 1330-78-5	LC50 (72h) = 0.4042 mg/L Algae (Desmodesmus subspicatus)(OECD 201)	LC50 (96h) =0.6 mg/L Fish (Oncorhynchus mykiss)	EC50 146 µg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

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12.3. Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Acetone 67-64-1	-0.24	0.69
Ethylbenzene 100-41-4	3.2	15
Tricresyl phosphate 1330-78-5	5.93	-

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 67-64-1	The substance is not PBT / vPvB
1,1-Difluoroethane 75-37-6	The substance is not PBT / vPvB
2,2,4-Trimethylpentane 540-84-1	The substance is not PBT / vPvB PBT assessment does not apply
Naphtha, petroleum, light alkylate 64741-66-8	The substance is not PBT / vPvB PBT assessment does not apply
1-Decene, homopolymer, hydrogenated 68037-01-4	The substance is not PBT / vPvB PBT assessment does not apply
Ethylbenzene 100-41-4	The substance is not PBT / vPvB
Tricresyl phosphate 1330-78-5	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

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 Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

IMDG

UN Number UN1950
Proper Shipping Name Aerosols (2,2,4-Trimethylpentane), Marine Pollutant
Transport hazard class(es) 2.1
Marine Pollutant PP This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
EmS-No. F-D, S-U
Special Provisions 63,190, 277, 327, 344, 381, 959
Limited Quantity (LQ) See SP277
Description UN1950, Aerosols (2,2,4-Trimethylpentane), 2.1, (-50°C c.c.), Marine Pollutant

IATA

UN Number UN1950

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Proper Shipping Name	Aerosols, flammable
Transport hazard class(es)	2.1
ERG Code	10L
Limited Quantity (LQ)	30 kg G
Special Provisions	A145, A167, A802
Description	UN1950, Aerosols, flammable, 2.1

ADR

UN Number	UN1950
Proper Shipping Name	Aerosols, Environmentally Hazardous
Transport hazard class(es)	2
Labels	2.2
Description	UN1950, Aerosols, 2, (E), Environmentally Hazardous
Environmental hazards	Yes
Limited Quantity (LQ)	1 L
Special Provisions	327, 625, 344, 190
Classification Code	5A
Tunnel Restriction Code	(E)

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

Chronic Hazard Star Legend

* = *Chronic Health Hazard*

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 No information available

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