

BOSTIK BL50
 Revision Number 4

Revision date 27-Nov-2019
 Supersedes Date: 27-Nov-2019

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

1.1. Product Identifier

Product Name BOSTIK BL50
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 (Shanghai) Management Co., Ltd
 Building 1, No.968 Guanghai Road, Minhang District
 Shanghai, China
 Tel: 021-60763101
 Fax: 021-60763133

Manufacturer
 Bostik Aerosols GmbH
 Giebelstadter Weg 16
 D-97234 Reichenberg-Albertshausen
 Germany
 Tel: +49 9366 90710

See section 16 for more information.

1.4. Emergency telephone number

Emergency Telephone 0532-8388 9090 (China only)
E-mail address SDS.AP@Bostik.com

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Aspiration hazard	Category 1 (6.1E ^g)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 (6.1D)
Skin corrosion/irritation	Category 3 (6.3B)
Skin sensitization	Category 1 (6.5B)
Aerosols	Category 1 (2.1.2A ^b)

2.2. Label Elements



Signal word

Danger

Hazard statements

- H316 - Causes mild skin irritation
- H332 - Harmful if inhaled
- H304 - May be fatal if swallowed and enters airways
- H317 - May cause an allergic skin reaction
- H222 - Extremely flammable aerosol
- H229 - Pressurized container: May burst if heated

Prevention

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P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse

Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting

Storage

P405 - Store locked up
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

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-%
Hydrocarbons, C10-C13, alkanes, isoalkanes, cyclics, <2% aromatics	ECKNOWN	50 - 60
2-Butoxyethanol	111-76-2	1 - 5
Perfum (Vanilla Batida)	--	0.1 - 1

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Get medical advice/attention. Remove and isolate contaminated clothing and shoes.
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
Skin contact	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

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

Symptoms None known.

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

Note to physicians Keep victim warm and quiet.

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.

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. In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all possible sources of ignition in the surrounding area. Ensure adequate ventilation, especially in confined areas.

Other information Ventilate the area.

6.2. Environmental precautions

Environmental precautions Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

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 Do not direct water at spill or source of leak.

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. Use only in well-ventilated areas. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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Pressurized container: Do not pierce or burn, even after use. Use personal protective equipment as required. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 50 - 95 °F. Observe local regulations / instructions for storage of pressurized containers.

Incompatible materials No information available

7.3. Specific end use(s)

Specific Use(s) lubricant.

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	China	Japan	Korea	New Zealand	Australia
2-Butoxyethanol 111-76-2		Ceiling: 20 ppm Ceiling: 97 mg/m ³ ISHL/ACL: 25 ppm	Skin TWA: 20 ppm	TWA: 25 ppm TWA: 121 mg/m ³ Skin	20 ppm TWA 96.9 mg/m ³ TWA 50 ppm STEL 242 mg/m ³ STEL

Chemical name	European Union	ACGIH TLV	NIOSH IDLH	OSHA PEL
2-Butoxyethanol 111-76-2	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ *	TWA: 20 ppm	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³ S*

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.

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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 No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Color	light brown
Odor	Pleasant
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	3000	hPa
Vapor density	No data available	
Relative density	No data available	
Water solubility	Immiscible in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data 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 (%)	No information available
Density	0.71412 g/cm ³
Bulk density	No information available
VOC Content (%)	583.5 g/L / 81.7 %

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.

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10.4. Conditions to avoid

Conditions to avoid Heating causes rise in pressure with risk of bursting.

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.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrocarbons, C10-C13, alkanes, isoalkanes, cyclics, <2% aromatics ECKNOWN	DL50 >5000 mg/kg (Rattus)	DL50 >2000 mg/kg (Oryctolagus cuniculus)	LC50 (8h) >5000 mg/m ³ Rat - Vapours
2-Butoxyethanol 111-76-2	=1476 mg/kg (Rattus)(OECD 401)	LD50 = 841 mg/kg (Oryctolagus cuniculus) (OECD 402)	= 450 ppm (Rat) 4 h = 486 ppm (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 blood forming system, liver, Eyes, Hematopoietic System, kidney, blood, retina, Skin.
Aspiration hazard No information available.
Carcinogenicity No information available.

Chemical name	IARC	China	Japan
2-Butoxyethanol	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
None known.

Component Information

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Data obtained on the component(s) include

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydrocarbons, C10-C13, alkanes, isoalkanes, cyclics, <2% aromatics ECKNOWN	LEO (72h) =1000 mg/L Algae (Pseudokirchneriella subcapitata)	LLO (96h) =1000 mg/L (Oncorhynchus mykiss)	LEO (48h) =1000 mg/L (Daphnia magna)
2-Butoxyethanol 111-76-2	EC50 (72h) = 1840 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50: =1490mg/L (96h, Lepomis macrochirus) LC50: =2950mg/L (96h, Lepomis macrochirus)	EC50: >1000mg/L (48h, Daphnia magna) EC50: 1698 - 1940mg/L (24h, Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
2-Butoxyethanol 111-76-2	0.81	-

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
2-Butoxyethanol 111-76-2	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
Transport hazard class(es) 2.1
Marine Pollutant Np
EmS-No. F-D, S-U
Special Provisions 63, 190, 277, 327, 344, 381, 959
Limited Quantity (LQ) See SP277
Description UN1950, Aerosols, 2.1

IATA

UN number UN1950
Proper Shipping Name Aerosols, flammable
Transport hazard class(es) 2.1

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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
Transport hazard class(es) 2
Labels 2.2
Description UN1950, Aerosols, 2, (E)
Limited Quantity (LQ) 1 L
Special Provisions 327, 625, 344, 190
Classification Code 5A
Tunnel Restriction Code (E)

Section 15: REGULATORY INFORMATION

X - Present

National Regulations

China

This product contains the following substance(s)

Chemical name	Weight-%	China - Catalog of Hazardous Chemicals - Hazardous Chemicals
2-Butoxyethanol 111-76-2	1 - 5	X

Japan

Not applicable

Korea

Chemicals Control Act (CCA)

This product does not contain phase-in substances subject to registration, toxic substances, substances subject to authorization, restricted substances, prohibited substances, substances requiring preparation for accidents regulated under the Chemicals Control Law

Industrial Safety and Health Law

Chemical name	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	ISHA - Substances Subject to Control - Gas-Phase Substances	ISHA - Substances to be controlled - Organic Substances	ISHA - Substances to be controlled - Metals	ISHA - Substances to be controlled - Acids and bases
2-Butoxyethanol 111-76-2				X		

Safety Control of Dangerous Substances Act

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Chemical name	Weight-%	Class 1 - oxidizing solids	Class 2 - flammable solids	Class 3 - spontaneously combustible substances and water-reactive materials	Class 4 - flammable liquids	Class 5 - self-reactive substances	Class 6 - oxidizing liquids
2-Butoxyethanol 111-76-2	1 - 5				4. Group 2 petroleum, soluble		

Korea - MOE - Waste Control Act - Hazardous Substances in Controlled Waste
Not applicable

International Regulations

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 16: OTHER INFORMATION

Local Contacts

Bostik Korea, Ltd.
6F, 21
Gukhoe-daero 62-gil Yeongdeungpo-gu
Seoul, 07236
Korea
Tel: +82-02-3703-6870
Fax: +82-02-3703-6850

Bostik-Nitta Co., Ltd
2-22, Futamata
Yao-City, Osaka, 581-0024
Japan
Tel: +81-72-948-8272
Fax: +81-72-948-5988

Bostik India Private Ltd
124/1 & 124/2A
Kachanayakanahalli
Behind Bommasandra Indl. Area
Off Hosur Road, Hennagara Post,
Anekal Taluk
Bangalore - 562106, Karnataka,
INDIA
Tel: 0091-80-27833520
Fax: 00 91-80-27831324
Email: Bostikinfo.India@bostik.com

Bostik Findley (Malaysia) Sdn. Bhd
Lot 112 & 113,
Kawasan Perindustrian senawang,
seremban, negeri sembilan, Malaysia
Tel: 606-6789788
Fax: 606-6789766

Bostik Asia Pacific
1 Science Park Road, #04-01/05
West Wing, The Capricorn,
Singapore Science Park II, Singapore
117528
Tel: +65-6419-9161
Fax: +65-6419-9150

Bostik (Thailand) Co., Ltd
1/32 Bang-na Thani
Tower 16th A Floor,
Soi Bangna-Trad 34,
Bangna-Trad rd.
Bang-na, Bangkok
Tel: 02-361 6460-7
Fax: 02-361 6469
Bostik Vietnam Company Limited
10 Doc Lap Avenue,
VSIP 1. Thuan An District,
Binh Duong Province. Viet Nam.
Tel: 84 650 3765105
Fax: 84 650 3765109

Bostik Philippines, Inc.
35/F Raffles Corporate Center,
F. Ortigas Jr. Road
Ortigas Business Center,
Pasig city, Philippines
Tel: 632-900-5656
Fax: 632-900-5622

Bostik Indonesia
Setiabudi Atrium Building,
Level 2, Suite 203 A
Jl. HR Rasuna Said
Jakarta Indonesia 12920
Tel: 62 21 521 0404
Fax: 62 21 521 0554

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Bostik Australia Pty Ltd
51-71 High Street,
Thomastown Victoria
Australia
Tel: 613 9279-9333
Fax: 613 9279-9342

Jiangsu Bositk Adhesive Co.,Ltd
No.15-9, Xinggang Road, Changshu
Enconomic Development Zone
Jiangsu Province 215536
Tel: 0086-512-52266000
Fax: 0086-512-52266020

Bostik Findley (China) Co.,Ltd
No.75, Xin Zhuang 2 Road, Yong He
District, GETDD
Guangzhou, 511356, China
TEL: 020 -32226211
FAX: 020 -32226261

ABN: 79 003 893 838
Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA (time-weighted average)
STEL (Short Term Exposure Limit)
LD50 (lethal dose)
EC50 (effective concentration)

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