

BOSTIK L7132K
Supersedes Date: 10-Nov-2017

Revision Date 09-Apr-2018
Revision Number 3

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

1.1. Product Identifier

Product Name BOSTIK L7132K
Pure substance/mixture Mixture

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

Recommended use Adhesives.
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Company Name
 Bostik Industries Limited
 Newtown, Swords
 Co. Dublin Ireland
 Tel: +353 (1) 8624900
 Fax: +353 (1) 8402186
 Bostik Limited
 Common Rd
 ST16 3EH
 Stafford UK
 Tel: +44 (1785) 27 26 25
 Fax: +44 (1785) 25 72 36

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

Supplied by:
Sil-Mid Limited
 Roman Park, Roman Way
 Coleshill, West Midlands
 B46 1HG. UK
 T: 01675 432850
 E: info@silmid.com

Emergency Telephone No. +44 (0)1675 432850
 (Monday to Friday, 08:00 – 17:30 – GMT)

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom	+44 (1785) 272650
Ireland	+353 (1) 8624900 (Monday- Friday 9am-5pm)

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corrosion/Irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Flammable liquids	Category 2 - (H225)

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains : Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer, Tetrahydrofuran, Toluene, Methyl ethyl ketone

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Signal Word
DANGER

Hazard statements

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H361d - Suspected of damaging the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260 - Do not breathe vapour
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

Please refer also to Safety Data Sheet of Part B

2.3. Other Hazards

General Hazards

In use may form flammable/explosive vapour-air mixture.

PBT and vPvB assessment

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Methyl ethyl ketone	201-159-0	78-93-3	>25 - <40	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)		01-2119457290-43 -XXXX
Tetrahydrofuran	203-726-8	109-99-9	15 - 25	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	Eye Irrit. 2 :: C>=25% STOT SE 3 :: C>=25%	01-2119444314-46 -XXXX

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				Carc. 2 (H351) STOT SE 3 (H335) Flam. Liq. 2 (H225) (EUH019)		
Toluene	203-625-9	108-88-3	10 - <20	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)		01-2119471310-51 -XXXX
Oxirane, 2,2'-[(1-methylethylidene)bi s(4,1-phenyleneoxymethyle ne)]bis-, homopolymer	-	25085-99-8	1 - <5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)		Exempt(P)

Full text of H- and EUH-phrases: see section 16

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

Note to doctors	Treat symptomatically.
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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

Use water spray or fog; do not use straight streams

5.2. Special hazards arising from the substance or mixture

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Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3. Advice for firefighters

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.

Water spray may reduce vapour; 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

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

Dyke 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).

Methods for cleaning up

Use personal protective equipment as required. Dam up. Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

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. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Take precautionary measures against static charges.

General Hygiene Considerations

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

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep only in the original container/package in a cool well-ventilated place. Keep from freezing.

7.3. Specific end use(s)

Other Information

Recommendation(s). Observe technical data sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Chemical Name	European Union	Ireland	United Kingdom
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ Skin	STEL: 300 ppm STEL: 899 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³ Skin
Tetrahydrofuran 109-99-9	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ S*	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ Skin	STEL: 100 ppm STEL: 300 mg/m ³ TWA: 50 ppm TWA: 150 mg/m ³ Skin
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100ppm STEL: 384mg/m ³ S*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 384 mg/m ³ STEL: 100 ppm Skin	STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 191 mg/m ³ Skin

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.
Hand Protection Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves must conform to standard EN 374
Skin and Body Protection Antistatic footwear. Wear fire/flame resistant/retardant clothing. Suitable protective clothing.
Respiratory Protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. In case of inadequate ventilation wear respiratory protection.
Recommended filter type: Wear a full face respirator conforming to EN 140 with Type A filter or better. Organic gases and vapours filter conforming to EN 14387.

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

Physical State Liquid
Appearance Liquid
Colour Amber
Odour Solvent
Odour Threshold No information available

Property	Values	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 65 °C / 149 °F	
Flash Point	-10 °C / 14 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit	No information available	
Vapour Pressure	< 110	kPa @ 50 °C
Vapour Density	No information available	

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Relative Density	No information available	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	Methyl ethyl ketone	
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Explosive Properties	No information available	
Explosive Limits	No information available	
Upper	No information available	
Lower	No information available	
Oxidising Properties	No information available	
Kinematic Viscosity	> 21 mm ² /s	@ 40°C
Dynamic Viscosity	100 mPa s	

9.2. Other information

Softening Point	No information available
Molecular Weight	No information available
Solvent content (%)	No information available
Solid content (%)	approx 25.5
Density	.920 g/ml
Bulk Density	No data available
VOC content (%)	74.6 %

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

Carbon oxides.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

No information or data specific to the product on this toxicological (health) effect is available.

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Inhalation	May cause drowsiness or dizziness.
Eye contact	Severely irritating to eyes.
Skin Contact	Irritating to skin.
Ingestion	No data available.
Sensitisation	May cause sensitisation of susceptible persons. May cause sensitisation by skin contact.

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

Skin Corrosion/Irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes severe eye damage.
Sensitisation	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Carcinogenicity	Contains a known or suspected carcinogen.

Chemical Name	European Union
Tetrahydrofuran 109-99-9	Carc. 2

Reproductive Toxicity	Contains a known or suspected reproductive toxin.
STOT - Single Exposure	May cause drowsiness or dizziness.
STOT - Repeated Exposure	Causes damage to organs through prolonged or repeated exposure.
Target Organ Effects	Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.
Aspiration hazard	No information available.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 5,427.00 mg/kg ppm mg/l

Component Information

Toxicity Data Data obtained on the component(s) include

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone 78-93-3	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
Tetrahydrofuran 109-99-9	= 1650 mg/kg (Rat)	-	= 21000 ppm (Rat) 3 h
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	> 20 mg/L (Rat) 4 h

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity No information available

Component Information

Data obtained on the component(s) include

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Chemical Name	Algae/aquatic plants	Fish	Crustacea	M-Factor
Methyl ethyl ketone 78-93-3	EC50=1972 mg/l (Pseudokirchneriella subcapitata)	LC50 96 h 3130 - 3320 mg/L (Pimephales promelas flow-through)	EC50 48 h > 308 mg/L (Daphnia magna)	
Tetrahydrofuran 109-99-9	-	LC50 96 h 1970 - 2360 mg/L (Pimephales promelas flow-through) LC50 96 h 2700 - 3600 mg/L (Pimephales promelas static)	EC50 24 h = 5930 mg/L (Daphnia magna)	
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)	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

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
Tetrahydrofuran 109-99-9	Group III Chemical	
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	Group III 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.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Other Information Waste codes should be assigned by the user based on the application for which the

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product was used.

Section 14: TRANSPORTATION INFORMATION

ADR

14.1 UN/ID no	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing Group	II
Description	UN1133, Adhesives, 3, II, (D/E)
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	640D
Classification Code	F1
Tunnel restriction code	(D/E)
Limited Quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	33

IMDG

14.1 UN Number	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
14.4 Packing Group	II
Description	UN1133, Adhesives, 3, II, (-10°C c.c.)
14.5 Marine Pollutant	Np
14.6 Special Provisions	None
Limited Quantity (LQ)	5 L
EmS-No	F-E, S-D
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

14.1 UN Number	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing Group	II
Description	UN1133, Adhesives, 3, II
14.5 Environmental Hazard	Not applicable
Classification Code	F1
14.6 Special Provisions	640D
Limited Quantity (LQ)	5 L

ICAO (air)

14.1 UN/ID no	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Hazard Class	3
14.4 Packing Group	II
Description	UN1133, Adhesives, 3, II
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	A3

IATA

14.1 UN/ID no	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
14.4 Packing Group	II
Description	UN1133, Adhesives, 3, II
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	A3
Limited Quantity (LQ)	1 L
ERG Code	3L

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Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

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)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	CAS No	Restrictions on use
Toluene	108-88-3	48.

48 . Reserved for industrial and professional use. Adhesives or spray paint shall not be placed on the market containing above substance equal to or greater than 0.1% where supplied to the general public.

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS
or
P5b - FLAMMABLE LIQUIDS
or
P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

None

Section 16: OTHER INFORMATION

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

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation

H361d - Suspected of damaging the unborn child

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H336 - May cause drowsiness or dizziness
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 vapour
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer
H335 - May cause respiratory irritation
H317 - May cause an allergic skin reaction
EUH019 - May form explosive peroxides
EUH066 - Repeated exposure may cause skin dryness or cracking

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls and personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		
STOT (RE)	Specific target organ toxicity - Repeated exposure		
STOT (SE)	Specific target organ toxicity - Single exposure		
EWC	European Waste Catalogue		

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 09-Apr-2018

Indication of changes

Revision Note SDS sections updated: 2.

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

Further information No information available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

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