

This safety data sheet was created pursuant to the requirements of:
GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

BOSTIK 5614 BLACK
Revision Number 1.01

Revision date 11-Jul-2021
Supersedes Date: 01-Apr-2019

1. Identification

Product identifier

Product Name BOSTIK 5614 BLACK
Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

Responsible Party

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

E-mail address SDS.AP@Bostik.com

Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622
+64 4 917 9888
Poison Centre : 0800 764 766

Recommended use of the chemical and restrictions on use

Recommended use Hot-melt adhesives
Restrictions on use No information available

2. Hazard(s) identification

Classification of the substance or mixture

Skin corrosion/irritation	Category 3 (6.3B)
Hazardous to the Aquatic Environment - Acute Hazard	Category 2 (9.1D)
Hazardous to the Aquatic Environment - Chronic Hazard	Category 2 (9.1B)

Label elements



Signal word Warning

Hazard statements

H411 - Toxic to aquatic life with long lasting effects
H316 - Causes mild skin irritation

Prevention

P273 - Avoid release to the environment

Skin

P332 + P313 - If skin irritation occurs: Get medical advice/attention

Spill

P391 - Collect spillage

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

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Other hazards

Contact with product at elevated temperatures can result in thermal burns

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Heptane	142-82-5	1 - <3
Cyclohexane	110-82-7	0.1- <1

*** Any remaining ingredients are not hazardous

4. First-aid measures

Description of necessary first aid measures

Inhalation	Molten . Move to fresh air in case of accidental inhalation of vapors or decomposition products. Solid: . Not an expected route of exposure.
Eye contact	Solid: . In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Molten . Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Contact with molten materials requires immediate medical assistance.
Skin contact	Solid: . Wash skin with soap and water. Molten . After contact with molten product, cool skin area rapidly with cold water. For severe burns, immediate medical attention is required. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance. Do not try to removed solidified material from the skin.
Ingestion	Get immediate medical advice/attention. Do not induce vomiting without medical advice.
<u>Most important symptoms/effects, acute and delayed</u>	
Symptoms	Contact with molten substance may cause severe burns to skin and eyes.
<u>For emergency responders</u>	
Self-protection of the first aider	No information available.
<u>Note to physicians</u>	Burns caused by molten material must be treated clinically. Treat any burns as thermal burns, after decontamination.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media Do not use straight streams.

Specific hazards arising from the chemical The product is insoluble and floats on water. The melted product can cause severe burns.

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Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with hot, molten product.
Other information Where possible allow molten material to solidify naturally.
For emergency responders Use personal protection recommended in Section 8.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Molten . Cover with dry sand/earth.

Solid: . Take up mechanically, placing in appropriate containers for disposal. **Molten** . Where possible allow molten material to solidify naturally. Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Wash thoroughly after handling. Take precautionary measures against static discharges. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Facilities for quickly drenching the body should be provided within the immediate work area for emergency use where there is a possibility of exposure.

See Section 8 for information on appropriate personal protective equipment

Conditions for safe storage, including any incompatibilities

Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

Incompatible materials Strong oxidizing agents, strong acids, and strong bases

8. Exposure controls/personal protection

Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	New Zealand	Australia	European Union
Heptane 142-82-5	TWA: 400 ppm TWA: 1640 mg/m ³ STEL: 500 ppm STEL: 2050 mg/m ³	400 ppm TWA 1640 mg/m ³ TWA 500 ppm STEL 2050 mg/m ³ STEL	TWA: 500 ppm TWA: 2085 mg/m ³
Cyclohexane 110-82-7	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 300 ppm STEL: 1050 mg/m ³	100 ppm TWA 350 mg/m ³ TWA 300 ppm STEL 1050 mg/m ³ STEL	TWA: 200 ppm TWA: 700 mg/m ³

Chemical name	ACGIH TLV	NIOSH	OSHA PEL
Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	IDLH: 750 ppm Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m ³ 15 min TWA: 85 ppm TWA: 350 mg/m ³	TWA: 500 ppm TWA: 2000 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 2000 mg/m ³
Cyclohexane	TWA: 100 ppm	IDLH: 1300 ppm	TWA: 300 ppm

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110-82-7		TWA: 300 ppm TWA: 1050 mg/m ³	TWA: 1050 mg/m ³ (vacated) TWA: 300 ppm (vacated) TWA: 1050 mg/m ³
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Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Suitable protective clothing.

Environmental exposure controls No information available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Very viscous Paste
Color	Black
Physical state	Liquid
Odor	Characteristic
Odor threshold	No information available

Property

Values

Remarks • Method

pH	No data available	Not applicable
pH (as aqueous solution)	No data available	Insoluble in water
Melting point / freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Flammability	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	No data available	
Relative vapor density	No data available	
Relative density	1.64	
Water solubility	Insoluble 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	

Additional information

Oxidizing properties	No information available
Solid content (%)	approx 95
Density	No data available

10. Stability and reactivity

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Stability	Stable under normal conditions.
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	static discharge (electrostatic discharge). Extremes of temperature and direct sunlight. Do not add water or other volatile material to molten adhesive. Under dusty conditions avoid all sources of ignition, including sparks and static electricity.
Incompatible materials	Strong oxidizing agents, strong acids, and strong bases.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO ₂). Hydrocarbons.

11. Toxicological information

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Based on available data, the classification criteria are not met.
Ingestion	Based on available data, the classification criteria are not met.

Acute Toxicity

Numerical measures of toxicity
No information available

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (inhalation-dust/mist) 4,983.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Heptane	LD50 > 5000 mg/Kg (rattus)	= 3000 mg/kg (Oryctolagus cuniculus)	=103 g/m ³ (Rattus) 4 h
Cyclohexane	=12705 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus cuniculus)	>9500 ppm (Rattus) 4 h

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

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Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Based on available data, the classification criteria are not met.

Target organ effects Central nervous system. Eyes. Respiratory system. Skin.
Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Heptane	-	LC50: =375.0mg/L (96h, Cichlid)	EC50: >10mg/L (24h, Daphnia magna)
Cyclohexane	EC50 72 h > 9.3 mg/L (Pseudokirchnerella subcapitata)	LC50: 23.03 - 42.07mg/L (96h, Pimephales promelas) LC50: 48.87 - 68.76mg/L (96h, Poecilia reticulata) LC50: 3.96 - 5.18mg/L (96h, Pimephales promelas) LC50: 24.99 - 44.69mg/L (96h, Lepomis macrochirus)	EC50: >0.9 mg/L (24h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulative potential There is no data for this product.

Chemical name	Partition coefficient
Heptane	4.66
Cyclohexane	3.44

Chemical name	PBT and vPvB assessment
Heptane 142-82-5	The substance is not PBT / vPvB
Cyclohexane 110-82-7	The substance is not PBT / vPvB

Mobility in soil No information available.

13. Disposal considerations

Waste chemicals
Waste from residues/unused products Dispose of in accordance with local regulations Dispose of waste in accordance with environmental legislation

Contaminated packaging Do not reuse empty containers

14. Transport information

IMDG Not regulated

IATA Not regulated

ADR Not regulated

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Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information

National regulations

ERMA Group HSR002670

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure

Prepared By Product Safety & Regulatory Affairs
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Revision note The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key literature references and sources for data used to compile the SDS

New Zealand's Chemical Classification and Information Database (CCID)
World Health Organization

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