

EDGETHERM 3600 HOT MELT BUTYL BLACK
 Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

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

1.1. Product Identifier

Product Name EDGETHERM 3600 HOT MELT BUTYL BLACK

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

Recommended use Hot-melt adhesives.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party

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

Manufacturer

Bostik Limited
 Common Rd
 ST16 3EH
 Stafford UK
 Tel: +44 (1785) 27 26 25
 Fax: +44 (1785) 25 72 36

E-mail msds@bostik-us.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332
 (Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin sensitization	Category 1
--------------------	------------

2.2. Label Elements

EMERGENCY OVERVIEW

WARNING

Hazard statements

May cause an allergic skin reaction



Contact with solid material may cause irritation
 Contact with molten material will cause thermal burns

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

Appearance	Blocks	Physical State	Solid	Odor	Characteristic
------------	--------	----------------	-------	------	----------------

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

Specific treatment (see first aid measures on this label)
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Precautionary Statements - Storage

Not applicable

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown acute toxicity

23% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Carbonic acid, calcium salt (1:1)	471-34-1	10 - 30
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	1760-24-3	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash skin with soap and water. In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance. Consult a physician if necessary. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air.
Ingestion	Seek medical advice immediately. Do not induce vomiting without medical advice.

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

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

Symptoms No information available.

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

Note to physicians Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water.

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

In case of fire: Use CO2, dry chemical, or foam to extinguish.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the Chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

5.3. Advice for firefighters

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Environmental Precautions Keep out of drains, sewers, ditches and waterways. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment **Molten** . Cover with dry sand/earth.

Methods for cleaning up Use personal protection equipment. **Molten** . Where possible allow molten material to solidify naturally. **Solid:** . Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

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 Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store away from incompatible materials.
Incompatible Materials Incompatible with oxidizing agents. Strong acids. Strong bases.

7.3. Specific end use(s)

Other Information Since empty containers retain product residue, follow label warnings even after container is emptied. Keep product and empty container away from heat and sources of ignition.

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 Guidelines Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Carbonic acid, calcium salt (1:1) 471-34-1	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	-	-

Chemical Name	Argentina	Brazil	Chile	Venezuela
Carbonic acid, calcium salt (1:1) 471-34-1	-	-	-	TWA: 10 mg/m ³

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
---------------	-----------	--------	-------	-----------

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

Methyl alcohol 67-56-1	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 156 ppm TWA: 200 mg/m ³ Skin	TWA: 175 ppm TWA: 229 mg/m ³ Skin	Skin STEL: 250 ppm TWA: 200 ppm
---------------------------	---------------------------------------	--	--	---------------------------------------

8.2. Exposure controls

OTHER INFORMATION

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water.

Engineering Controls

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment [PPE]

Eye/Face Protection

Molten . Wear protective eye glasses for protection against liquid splashes.

Skin and Body Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Heat resistant gloves are recommended when handling molten materials.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Facilities for quickly drenching the body should be provided within the immediate work area for emergency use where there is a possibility of exposure.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Solid
Appearance	Blocks
Color	No information available
Odor	Characteristic
Odor Threshold	No information available

Property	Values
pH	No information available
Melting point / freezing point	No information available
Boiling point / boiling range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available

Remarks • Method

Water Solubility	No information available
Solubility in Other Solvents	
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
-------------------	--------------------------

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

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 (%) 100
Density 0.86 g/cm³
VOC No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Protect from moisture. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Do not add water or other volatile material to molten adhesive.

10.5. Incompatible materials

Incompatible with oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information No data available
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 May cause sensitization by skin contact.
Ingestion Based on available data, the classification criteria are not met.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Carbonic acid, calcium salt (1:1) 471-34-1	LD50 > 2000 mg/kg (Rat) OECD 420	LD50 >2000 mg/kg (Rat) OECD 402	LC50 (4h) >3mg/ml (Rat)
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine 1760-24-3	= 2413 mg/kg (Rat) = 7460 µL/kg (Rat)	-	LC50 4H (Aerosol) 1.5 - 2.44 mg/L air

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

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

Symptoms	No information available.
Skin Corrosion/Irritation	No information available.
Serious Eye Damage/Eye Irritation	No information available.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	May cause sensitization by skin contact.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
Teratogenicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Chronic Toxicity	No information available.
Target Organ Effects	Eyes, Respiratory system, Skin.
Aspiration hazard	No information available.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by ACGIH, OSHA, IARC or NTP at or above 0.1 wt%.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Carbonic acid, calcium salt (1:1) 471-34-1	IC50 72H Algae >1000 mg/l	CL50 96H Fish >1000 mg/l		EC50 48H Daphnia >1000 mg/l
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine 1760-24-3		LC50 (96H) =597 mg/L Fish (Danio rerio)Semi-static		EC50 (48h) =81mg/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.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

Contaminated Packaging Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORTATION INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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.

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)

Section 16: OTHER INFORMATION

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

No information available

Safety Data Sheet

EDGETHERM 3600 HOT MELT BUTYL BLACK
Revision Number 1

Revision Date 04-Jun-2018
Supersedes Date: 04-Jun-2018

Key Literature References and Sources for Data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision Date 04-Jun-2018

Revision Note Not applicable.

Training Advice No information available

Further information 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