

70-08A BLACK ADVANCED PERFORM Revision Number 2

Revision Date 08-May-2018 Supersedes Date: 09-May-2016

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

1.1. Product Identifier

Product Name

70-08A BLACK ADVANCED PERFORM

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

Recommended use	Adhesives and/or sealants.
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

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: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

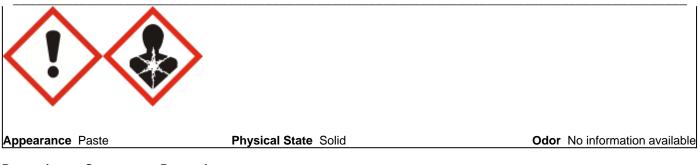
2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements Causes serious eye irritation May cause an allergic skin reaction May damage fertility or the unborn child May cause damage to organs through prolonged or repeated exposure

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Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see first aid measures on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown acute toxicity

0% 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 upon curing.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Carbonic acid, calcium salt (1:1)	471-34-1	30 - 60
Limestone	1317-65-3	5 - 10
Silane, ethenyltrimethoxy-	2768-02-7	1 - 5
Stearic acid	57-11-4	1 - 5
1-Propanamine, 3-(trimethoxysilyl)-	13822-56-5	1 - 5
Carbon black	1333-86-4	0.1 - 1
Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-	22673-19-4	0.1 - 1

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

Section 4: FIRST AID MEAS	URES			
4.1. Description of first aid measures				
General Advice	If medical advice is needed, have product container or label at hand.			
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eyelids apart and consult an physician.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician.			
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.			
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).			
Self-Protection of the First Aider	First aider: Pay attention to self-protection!.			
4.2. Most important symptoms and	l effects, both acute and delayed			
Symptoms	None known.			
4.3. Indication of any immediate m	edical attention and special treatment needed			
Note to physicians	Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. May cause sensitization of susceptible persons. May cause sensitization by skin contact. 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 M	IEASURES			
5.1. Extinguishing media				
Suitable Extinguishing Media Carbon dioxide (CO2). Extinguishing powder. Water spray or fog. Alcohol resistant foam.				
Unsuitable Extinguishing Media Strong water jet.				
5.2. Special hazards arising from t	he substance or mixture			
Specific Hazards Arising from the	Chemical			

Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO2). Halogenated hydrocarbons. Nitrogen oxides (NOx). 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

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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. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protection equipment. Avoid contact with skin, eyes or clothing. Do not touch or walk through spilled material.
6.2. Environmental precautions	
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
6.3. Methods and material for con	tainment and cleaning up
Methods for Containment	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. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.
6.4. Reference to other sections	
Reference to other sections	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
 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. 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

Section 13: DISPOSAL CONSIDERATIONS

 Storage Conditions
 Keep away from food, drink and animal feeding stuffs. Keep from freezing. Recommended storage temperature. 10 - 35 °C. Protect from direct contact with water or excessive moisture.

Incompatible Materials Water.

7.3. Specific end use(s)

Specific Use(s) Sealant, Observe technical data sheet.

Other Information

No information available.

7.4. References to Other Sections

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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

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. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Carbonic acid, calcium salt (1:1)	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable	-	-
471-34-1 Limestone 1317-65-3	-	dust TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Stearic acid 57-11-4	TWA: 10 mg/m ³ inhalable particulate matter TWA: 3 mg/m ³ respirable particulate matter	-	-	-
Carbon black 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	TWA: 3.5 mg/m³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
Tin, dibutylbis(2,4-pentanedionat o-O,O')-, (OC-6-11)- 22673-19-4	STEL: 0.2 mg/m³ Sn TWA: 0.1 mg/m³ Sn S*	IDLH: 25 mg/m³ Sn TWA: 0.1 mg/m³ except Cyhexatin Sn	TWA: 0.1 mg/m³ Sn	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Carbonic acid, calcium salt (1:1)	-	-	-	TWA: 10 mg/m ³
471-34-1				
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 7 mg/m ³	-
Carbon black 1333-86-4	TWA: 3.5 mg/m ³	-	-	TWA: 3.5 mg/m ³
Tin, dibutylbis(2,4-pentanedionat o-O,O')-, (OC-6-11)- 22673-19-4	TWA: 0.1 mg/m³ Skin STEL: 0.2 mg/m³	-	TWA: 0.09 mg/m³ Skin	Skin STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Methyl alcohol	STEL: 250 ppm	IDLH: 6000 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 260 mg/m³	TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Methyl alcohol	TWA: 200 ppm	TWA: 156 ppm	TWA: 175 ppm	Skin
67-56-1	Skin	TWA: 200 mg/m ³	TWA: 229 mg/m ³	STEL: 250 ppm
	STEL: 250 ppm	Skin	Skin	TWA: 200 ppm

8.2. Exposure controls

OTHER INFORMATION

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

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Engineering Controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment [PPI	
Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body 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	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	by 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. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash before reuse.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical Physical State Appearance Color Odor Odor Odor Threshold	and chemical properties Solid Paste Black No information available No information available		
Property pH Melting point / freezing point Boiling point / boiling range Flash Point Evaporation Rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor Pressure Vapor Density Relative Density	Values No information available No information available No information available > 93.3 °C / > 200 °F No information available No information available No information available No information available No information available No information available No information available	Remarks • Method Water Solubility Solubility in Other Solvents Partition Coefficient Autoignition Temperature Decomposition Temperature	No information available No information available No information available No information available
Kinematic Viscosity	No information available		
Dynamic Viscosity	No information available		
Explosive Properties Oxidizing Properties	No information available No information available		
<u>9.2. Other information</u> Softening Point Molecular Weight Solvent content (%)	No information available No information available No information available		

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Solid content (%)	100
Density	1.50 g/cm ³
VOC	< 30 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product cures with moisture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep from freezing. Protect from moisture. Product cures with moisture.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

None under normal use and recommended storage conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information	No data available
Inhalation	No data available.
Eye contact	Irritating to eyes. Avoid contact with eyes.
Skin Contact	May cause sensitization by skin contact.
Ingestion	No data available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Carbonic acid, calcium salt (1:1)	LD50 > 2000 mg/kg (Rat) OECD	LD50 >2000 mg/kg (Rat) OECD	LC50 (4h) >3mg/ml (Rat)
471-34-1	420	402	
Limestone	>5000 mg/kg (rat)	-	-
1317-65-3			
Silane, ethenyltrimethoxy-	LD 50 = 7120 -7236 mg/kg (Rat)	= 3360 µL/kg (Rabbit)	-
2768-02-7	OECD 401		
Stearic acid	>5000 mg/Kg (Rabbit)	> 5 g/kg (Rabbit)	-
57-11-4			
1-Propanamine, 3-(trimethoxysilyl)-	LD50 (rat) > 2000 mg/ kg (2,97	LD50 (rabbit) > 2000 mg/kg (11,3	-
13822-56-5	ml/kg)	ml/kg)	
Carbon black	LD 50 > 8000 mg/kg (rat)	> 3 g/kg (Rabbit)	-
1333-86-4	OECD 401		
Tin,	LD50 = 1864 mg/kg (Rat) OECD	LD50 > 2000 mg/kg (Rat) OECD	-
dibutylbis(2,4-pentanedionato-O,O')	401	402	
-, (OC-6-11)-			
22673-19-4			

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

Symptoms Skin Corrosion/Irritation	No information available. No information available.
Serious Eye Damage/Eye Irritation	Irritating to eyes. No information available.
Corrosivity	No information available.
Sensitization	May cause sensitization by skin contact.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
Developmental Toxicity	No information available.
Teratogenicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic Toxicity	No information available.
Target Organ Effects	Eyes, Respiratory system, Skin.
Aspiration hazard	Not applicable.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen. As Carbon black (1333-86-4) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black 1333-86-4	A3	Group 2B	-	Х

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmondesmus subspicatus)	CL50 (96h)>10000mg/L Fish (Oncorhynchus mykiss)		CE50 (48h) >1000 mg/L Daphnia Magna
Silane, ethenyltrimethoxy- 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	L50 (96h) = 191 mg/l (Oncorhynchus mykiss)		EC50(48hr) 168.7mg/l (Daphnia magna)
Stearic acid 57-11-4	EC50 >1016 mg/l 72Hr microbial growth inhibition	LC50 >1000 mg/l , 48 Hour		
1-Propanamine, 3-(trimethoxysilyl)- 13822-56-5	EC50 (72h) > 1000 mg/l (Desmodesmus subspicatus) EU Method C.3 (Algal Inhibition test)	LC50 (96h) > >934 mg/L (Danio rerio) OECD 203		EC50 (48h) = 331 mg/L (Daphnia magna) OECD 202
Carbon black 1333-86-4	>10000 mg/l (Desmodesmus subspicatus) OECD 202	>1000 mg/l (Brachydanio rerio) OCDE 203		EC50 24 h > 5600 mg/L (Daphnia magna)

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Tin,	>2.0 mg/l	>2.0 mg/l	EC50 0.0036 mg/l 48Hr
dibutylbis(2,4-pentanedionat			(Daphnia magna)
o-O,O')-, (OC-6-11)-			
22673-19-4			

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

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.

<u>Canada</u>

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

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D2A - Very toxic materials



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	Yes
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 contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical Name CA	AS No
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol 25	5973-55-1

Section 16: OTHER INFORMATION

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
Revision Date	08-May-2018
Revision Note	Not applicable.
Training Advice	When working with hazardous materials, regular training of operators is required by law
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

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specified in the text.

End of Safety Data Sheet