

BOSTIK MSR CA SSKF BLACK
Version 2

Revision Date 03-Aug-2017
Supersedes Date: 01-Jun-2017

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

1.1. Product Identifier

Product Name BOSTIK MSR CA SSKF BLACK
Pure substance/mixture Mixture

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

Recommended use Adhesives.
Uses Advised Against No information available.

1.3. Details of the supplier of the safety data sheet

Company Name Bostik New Zealand Limited 19 Eastern Hutt Road Wingate, Lower Hutt, New Zealand Tel: 04-567 5119 Fax: 04-567 5412	Bostik SA Immeuble "Le Jade" 253 Avenue du President Wilson 93211 La Plaine Saint Denis France Tel: +33 (0)1 55 99 90 00 Fax: +33 (0)1 55 99 90 01
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1.4. Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622
Poison Centre : 0800 764 766

E-mail address SDS.AP@Bostik.com

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

ERMA Group Not applicable

2.2. Label Elements

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Signal Word None

Precautionary Statements - Prevention

P264 - Wash hands thoroughly after handling
P281 - Use personal protective equipment as required

Precautionary Statements - Response

P314 - Get medical advice/attention if you feel unwell

Skin

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

EYES

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Precautionary Statements - Storage

P401 - Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

P501 - Dispose of contents/containers in accordance with local regulations

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2.3. Other Hazards

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

Not applicable

3.2 Mixtures

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Chemical Name	CAS No.	Weight-%
Carbonic acid, calcium salt (1:1)	471-34-1	40 - <80
Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-[3-(dimethoxymethylsilyl)propyl]-.omega.-[3-(dimethoxymethylsilyl)propoxy-]	75009-88-0	40 - <80
Silane, ethenyltrimethoxy-	2768-02-7	1 - <3
Stearic acid, sodium salt	822-16-2	1 - <3
Carbon black	1333-86-4	1 - <3
1-Propanamine, 3-(trimethoxysilyl)-	13822-56-5	1 - <3
Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9	0.1- <1
Octadecyl	2082-79-3	0.1- <1
3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate		
Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane	93925-43-0	0.1- <1
Methyl silicate	681-84-5	<0.01

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	Remove contaminated clothing and shoes. If medical advice is needed, have product container or label at hand.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.
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.
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 effects, both acute and delayed

Symptoms None known.

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

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

4.4. Reference to Other Sections

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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 Carbon dioxide (CO₂). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the 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).

5.3. Advice for firefighters

Special Protective Equipment for Fire-fighters Wear self-contained breathing apparatus and protective suit.

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.

6.2. Environmental precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment 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. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. 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 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on Safe Handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Fire prevention measures. No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage Conditions Protect from moisture. Keep away from food, drink and animal feeding stuffs. Recommended storage temperature. 10 - 35 °C. Keep container tightly closed and dry.

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Product cures with moisture.

Incompatible Materials No information available

7.3. Specific end use(s)

Specific Use(s) Adhesives.

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

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
Carbonic acid, calcium salt (1:1) 471-34-1	TWA: 10 mg/m ³	10 mg/m ³	-
Stearic acid, sodium salt 822-16-2	TWA: 10 mg/m ³	10 mg/m ³	-
Carbon black 1333-86-4	TWA: 3 mg/m ³	3 mg/m ³	-
Methyl silicate 681-84-5	TWA: 1 ppm TWA: 6 mg/m ³	1 ppm 6 mg/m ³	-

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL
Carbonic acid, calcium salt (1:1) 471-34-1	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	-
Stearic acid, sodium salt 822-16-2	TWA: 10 mg/m ³ inhalable particulate matter TWA: 3 mg/m ³ respirable particulate matter TWA: 10 mg/m ³ inhalable particulate matter except stearates of toxic metals TWA: 3 mg/m ³ respirable particulate matter except stearates of toxic metals	-	-
Carbon black 1333-86-4	TWA: 3 mg/m ³ 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/m ³
Methyl silicate 681-84-5	TWA: 1 ppm	TWA: 1 ppm TWA: 6 mg/m ³	-

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

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

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

PPE - Personal Protection Equipment

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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.
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	Paste
Color	Black
Odor	Slight
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	No information available	
Flash Point	> 100 °C / > 212 °F	CC (closed cup)
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	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	7000 mPa s	@ 20 °C
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	1.4 g/cm ³
Bulk Density	No information available
VOC	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical Stability

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10.3. Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Protect from moisture. Product cures with moisture.

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

In vitro Bovine Corneal Opacity and Permeability tests (BCOP test; OECD 437) have been carried out on this product.

Inhalation

No Data Available.

Eye contact

The test item induced a mean In-vitro irritancy score ≤ 3 , the test item was considered as a test chemical not requiring classification for eye irritation or serious eye damage (UN GHS No Category).

Skin Contact

No Data Available.

Ingestion

No Data Available.

Numerical measures of toxicity

Unknown acute toxicity

0.2010001 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.5910001 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

6.0863001 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

3.0910001 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

6.0863001 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Carbonic acid, calcium salt (1:1) 471-34-1	= 6450 mg/kg (Rat)	>2000 mg/kg	LC50 (4h) >3mg/ml (Rat)
Silane, ethenyltrimethoxy- 2768-02-7	LD 50 = 7120 -7236 mg/kg (Rat) OECD 401	= 3360 μ L/kg (Rabbit)	-
Carbon black 1333-86-4	LD 50 > 8000 mg/kg (rat) OECD 401	> 3 g/kg (Rabbit)	-
1-Propanamine, 3-(trimethoxysilyl)- 13822-56-5	LD50 (rat) > 2000 mg/ kg (2,97 ml/kg)	LD50 (rabbit) > 2000 mg/kg (11,3 ml/kg)	-
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	LD50 (rat) > 2000 mg/kg OECD 423	LD50 (rat) > 3 170 mg/kg OECD 402	= 500 mg/m ³ (Rat) 4 h
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphen yl)propionate 2082-79-3	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 1800 mg/L (Rat) 4 h
Methyl silicate 681-84-5	-	= 17 mL/kg (Rabbit)	-

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Skin Corrosion/Irritation

No information available.

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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 No information available.
Aspiration Hazard No information available.
Carcinogenicity No information available.

Chemical Name	IARC	China	Japan
Carbon black	Group 2B	-	Group 2B

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

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Harmful to aquatic life.

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/Aquatic Plants	Fish	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
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)
Carbon black 1333-86-4	>10000 mg/l (Desmodesmus subspicatus) OECD 202	>1000 mg/l (Brachydanio rerio) OECD 203	EC50 24 h > 5600 mg/L (Daphnia magna)
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
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata)	LC50 5.29 mg/l (Oryzias latipes)	LC50 48Hr 8.58 mg/l (Daphnia magna)
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate 2082-79-3	EC50 72 h > 30 mg/L (Desmodesmus subspicatus)	LC50 96 h > 100 mg/L (Lepomis macrochirus) LC50 96 h > 100 mg/L (Lepomis macrochirus static)	EC50 24 h > 100 mg/L (Daphnia magna)

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulative Potential

No information available.

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.

12.6. Other Adverse Effects

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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: TRANSPORTATION INFORMATION

IMDG Not regulated

IATA Not regulated

ADR Not regulated

Section 15: REGULATORY INFORMATION

National Regulations

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

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Revision Note Not applicable.

Training Advice No information available

Disclaimer

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End of Safety Data Sheet