

SSG4713B

SAFETY DATA SHEET

1. Identification

Product identifier: SSG4713B

Other means of identification

Synonyms: PASTE CATALYST B (BLACK)

Recommended use and restriction on use

Recommended use: Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information
+1-800-295-2392

Emergency telephone number
Supplier : CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Toxic to reproduction	Category 1B
Toxic to reproduction	Category 1B

Label Elements

Hazard Symbol:

SSG4713B



Signal Word: Danger

Hazard Statement: Causes serious eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.

Precautionary Statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye protection/face protection. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response: IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

SSG4713B

Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
gamma-Aminopropyltriethoxysilane	919-30-2	15 - 40%	No data available.
Carbon Black	1333-86-4	7 - 13%	# This substance has workplace exposure limit(s).
Tris(3(trimethoxysilyl)propyl)isocyanurate	26115-70-8	5 - 10%	No data available.
SILICIC ACID, TETRAPROPYL ESTER, Silicic acid (H4SiO4) , tetrapropyl ester	682-01-9	5 - 10%	No data available.
DIBUTYL TINOXIDE (48% as Tin)	818-08-6	0.5 - 1.5%	# This substance has workplace exposure limit(s).
DIISOCTYLPHTHALATE	27554-26-3	0.5 - 1.5%	No data available.

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

4. First-aid measures

Ingestion: Call a physician or poison control center immediately.

Inhalation: Call a physician or poison control center immediately.

Skin Contact: No data available.

Eye contact: Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

SSG4713B

General Fire Hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Corrosive Material Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Keep out of reach of children. Attention: Not for injection into humans.

Methods and material for containment and cleaning up: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section. Warn other workers of spill. Keep unauthorized personnel away.

7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is expected; material has a flash point below 200 F. Provide adequate general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities: No data available.

8. Exposure controls/personal protection

Control Parameters
Occupational Exposure Limits
 SDS_US

SSG4713B

Chemical Identity	type	Exposure Limit Values	Source
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
Carbon Black	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	3.5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	3.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
DIBUTYL TINOXIDE (48% as Tin) - as Sn	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

Appropriate Engineering Controls Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information: Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

Eye/face protection: Monogoggles

Skin Protection

Hand Protection: Rubber or plastics gloves

Other: Wear suitable protective clothing and eye/face protection.

Respiratory Protection: Use only in well-ventilated areas.

Hygiene measures: No data available.

9. Physical and chemical properties

SSG4713B

Appearance

Physical state:	solid
Form:	solid
Color:	Black
Odor:	amine like
Odor threshold:	No data available.
pH:	not applicable
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	not applicable
Flash Point:	> 63 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Heat of combustion:	No data available.
Vapor pressure:	not applicable
Vapor density:	No data available.
Density:	ca. 1.020 g/cm ³
Relative density:	ca. 1.02
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	162 g/l

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.

SSG4713B

Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
Conditions to avoid:	Keep away from any contact with water.
Incompatible Materials:	Reacts with water liberating small amounts of methanol. Reacts with water forming ethanol. Avoid contact with acids and oxidizing substances.
Hazardous Decomposition Products:	Carbon dioxide Formaldehyde. Amines. Silicon dioxide. Toxic metal fumes. Tin fumes. Ethanol. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 2,260.85 mg/kg

Specified substance(s):

Tris(3(trimethoxysilyl)propyl)isocyanurate LD 50 (Rat, No data available.): 2,346 mg/kg

DIBUTYL TINOXIDE (48% as Tin) LD 50 (Rat): 487 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

SSG4713B

Specified substance(s):

Tris(3(trimethoxysilyl)propyl)isocyanurate LD 50 (Rabbit, No data available.): 18,000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Specified substance(s):

gamma-Aminopropyltriethoxysilane NOAEL (Rat, Oral, 90 d): 200 mg/kg

Skin Corrosion/Irritation

Product: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h): No skin irritation

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Carbon Black Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

SSG4713B

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

gamma-
Aminopropyltriethoxysilan
e
Ames-Test: negative
Chinese Hamster Ovary (CHO): negative

In vivo

Product: No data available.

Specified substance(s):

gamma-
Aminopropyltriethoxysilan
e
Micronucleus test (mouse): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects:

Product releases amine vapors during cure. Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

gamma-
Aminopropyltriethoxysilan
LC50 (Brachydanio rerio, 96 h): > 934 mg/l

SSG4713B

e

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

gamma-aminopropyltriethoxysilane EC50 (Daphnia magna, 48 h): 331 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

gamma-aminopropyltriethoxysilane EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l
NOEC (Desmodesmus subspicatus (green algae), 72 h): 1.3 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

gamma-aminopropyltriethoxysilane 67 % (28 d) Not readily degradable. hydrolyses

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

SSG4713B

Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

gamma-Aminopropyltriethoxysilane	No data available.
Carbon Black	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
SILICIC ACID, TETRAPROPYL ESTER, Silicic acid (H4SiO4) , tetrapropyl ester	No data available.
DIBUTYL TINOXIDE (48% as Tin)	No data available.
DIISOCTYLPHTHALATE	No data available.

Known or predicted distribution to environmental compartments

SILOXANES AND SILICONES, DI-ME	No data available.
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Other Adverse Effects: No data available.

13. Disposal considerations

Disposal instructions: Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging: No data available.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

Special precautions for user: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

SSG4713B

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
gamma-Aminopropyltriethoxysilane	10000 lbs
Carbon Black	10000 lbs
Tris(3(trimethoxysilyl)propyl)isocyanurate	10000 lbs
SILICIC ACID, TETRAPROPYL ESTER, Silicic acid (H4SiO4) , tetrapropyl ester	10000 lbs
DIBUTYL TINOXIDE (48% as Tin)	10000 lbs
DIISOCTYLPHTHALATE	10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

SSG4713B

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Carbon Black
Ethanol

Carcinogenic.
Developmental toxin.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

SILOXANES AND SILICONES, DI-ME
gamma-Aminopropyltriethoxysilane
Carbon Black
Tris(3(trimethoxysilyl)propyl)isocyanurate
SILICIC ACID, TETRAPROPYL ESTER, Silicic acid (H₄SiO₄) ,
tetrapropyl ester

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Carbon Black

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

SSG4713B

Inventory Status:

Australia AICS:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	*	3
Flammability	2	
Physical Hazards	1	
PERSONAL PROTECTION		

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 08/30/2016
Revision Date: No data available.
Version #: 2.5
Further Information: No data available.

SSG4713B

Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

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.

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