

# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

**GHS Product identifier:** SSG4600B

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Sealant

**Recommended restrictions:** For industrial use only.

### Supplier's details

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials (Nantong) Co. Ltd.  
Jiang hai Road No.9, Economic and Technological Development  
Area of  
Nantong, 226017 China

**Contact person** : commercial.services@momentive.com

**Telephone** : +86-513-8100-8666  
**Telefax** : +86-21-5079-3707

**Emergency telephone number** : +86-532-8388-9090(NRCC)/400 120 6011 (Carechem24)

**Responsible Department** : Product Stewardship & Compliance

## 2. Hazard(s) identification

**GHS classification of substance or mixture, and national or regional information:**

### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

### Environmental Hazards

Chronic hazards to the aquatic environment	Category 3
--	------------

### Unknown toxicity

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	0 %

### GHS label elements

**Hazard symbol(s):**



**Signal Word:** Danger

**Hazard Statement(s):** Causes skin irritation.  
Causes serious eye damage.  
Harmful to aquatic life with long lasting effects.

**SSG4600B**

**Precautionary statement(s):**

- Prevention:** Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
- Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). 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.
- Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Concentration*
Gamma-Aminopropyltrimethoxysilane	13822-56-5	10 - 20%
Carbon Black	1333-86-4	10 - 20%
3-glycidyl-oxypropyl-trimethoxy-silane	2530-83-8	1.0 - 10%
Dibutyltin Dilaurate	77-58-7	0.1 - 1%

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

**4. First-aid measures**

**Description of necessary first-aid measures**

- Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Consult a physician for specific advice.
- Inhalation:** Move to fresh air. Get medical attention if symptoms occur.
- Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
- Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center 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**

**SSG4600B**

**Treatment:** No data available.

**5. Fire-fighting measures**

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** No data available.

**Special protective action for fire fighters**

**Special fire-fighting procedures:** Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

**Special protective equipment for fire-fighters:** Wear suitable respiratory protection.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Use personal protective equipment.

**Environmental Precautions:** Prevent runoff from entering drains, sewers, or streams.

**Methods and material for containment and cleaning up:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

**7. Handling and storage**

**Precautions to ensure safe handling:** Methanol is formed during processing. Ammonia is formed during processing. See Section 8 of the SDS for Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place. Use original container or packaging of similar material of construction

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
(1) Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
Dibutyltin Dilaurate - as	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values,

**SSG4600B**

Sn			as amended (03 2015)
	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)

**Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2015)
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEI (03 2015)
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEI (03 2015)
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEI (03 2015)

**Appropriate Engineering Controls:**

No data available.

**Individual protection measures, such as personal protective equipment**

<b>General information:</b>	Wear suitable gloves and eye/face protection.
<b>Eye/face protection:</b>	Safety glasses with side shields
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Rubber or plastics gloves
<b>Other:</b>	Wear rubber apron. Wear suitable protective clothing and eye/face protection.
<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator.
<b>Hygiene measures:</b>	Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat or drink.

**9. Physical and chemical properties**

**Appearance**

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Black
<b>Odor:</b>	amine like
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	> 200 °C
<b>Flash Point:</b>	> 88 °C (Closed Cup)
<b>Evaporation rate:</b>	< 1
<b>Flammability (solid, gas):</b>	No data available.
<b>SDS_TH</b>	

**SSG4600B**

**Upper/lower limit on flammability or explosive limits**

<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	1 g/cm <sup>3</sup>
<b>Relative density:</b>	ca. 1
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	> 20.5 mm <sup>2</sup> /s (40 °C)

**10. Stability and reactivity**

<b>Reactivity:</b>	No dangerous reaction if used as recommended.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Keep away from sources of ignition - No smoking.
<b>Incompatible Materials:</b>	Avoid contact with acids and oxidizing substances. Reacts with water liberating small amounts of methanol.
<b>Hazardous Decomposition Products:</b>	Carbon oxides Oxides of silicon. Methanol Ammonia. 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**

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.

**SSG4600B**

**Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** ATEmix): 17,857.14 mg/kg  
**Specified substance(s):**  
Dibutyltin Dilaurate LD 50 (Rat, male and female): 2,071 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity)) Not classified Slightly toxic

**Dermal**

**Product:** ATEmix ): 31,565.66 mg/kg

**Specified substance(s):**

Dibutyltin Dilaurate LD 50 (Rat): > > 2,000 mg/kg (OECD-Guideline 402 (Acute Dermal Toxicity))  
Semi-occlusive

**Inhalation**

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

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane LC50 ( , ): > 5.3 mg/l (OECD Test Guideline 403)

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane NOAEL : 500 mg/kg  
NOAEL : 225 mg/m<sup>3</sup>

**Skin Corrosion/Irritation**

**Product:** Irritating to skin.

**Serious Eye Damage/Eye Irritation**

**Product:** Causes eye irritation.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane Not classified

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**ACGIH Carcinogen List:**

**SSG4600B**

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)) Positive in the Ames test.  
Chinese Hamster Ovary (CHO) (OECD 476): negative (not mutagenic)  
Mouse Lymphoma Assay (OECD Guideline 476) (OECD 476): positive  
Micronucleus test (OECD 487): negative (not mutagenic) based on read-across from structural analogue [3-(2,3-epoxypropoxy)propyl]triethoxysilane

**In vivo**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)): positive  
Comet Assay (OECD 489): No clear conclusions about germ cell mutagenicity was reached based on the results from this study.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane Not classified

**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:** Contains dibutyl tin dilaurate which may cause birth defects and reproductive effects based on animal data.

**12. Ecological information**

**Ecotoxicity**

**Acute hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane LC50 (Fish, 96 h): 55 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-trimethoxy-silane EC 50 (Daphnia, 48 h): 324 mg/l  
Dibutyltin Dilaurate EC50 (Daphnia magna, 48 h): < 0.463 mg/l Fresh water

**SSG4600B**

**Chronic hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-  
trimethoxy-silane NOEC (Daphnia, 21 d): > 100 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-  
trimethoxy-silane NOEC (Algae, 7 d): 119 mg/l

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

3-glycidyl-oxypropyl-  
trimethoxy-silane The product is not readily biodegradable.

Dibutyltin Dilaurate 23 % (39 d) The product is not readily biodegradable.

**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.

**Specified substance(s):**

3-glycidyl-oxypropyl-  
trimethoxy-silane Log Kow: 0.5 20 °C

**Mobility**

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Gamma- No data available.

Aminopropyltrimethoxysilan  
e

Carbon Black No data available.

3-glycidyl-oxypropyl-  
trimethoxy-silane No data available.

Dibutyltin Dilaurate No data available.



**SSG4600B**

**Other adverse effects:** No data available.

**13. Disposal considerations**

**General information:** The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

**Disposal methods**

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. The generation of waste should be avoided or minimized wherever possible. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

**Contaminated Packaging:** No data available.

**14. Transport information**

**ADR**

Not regulated.

**RID**

Not regulated.

**IATA**

Not regulated.

**IMDG**

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. Keep away from foodstuffs and animal feed. Protect from moisture.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**15. Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**Thailand. List of Hazardous Substances (Notification of Ministry of Industry Re: List of Hazardous Substances B.E. 2556, Annex: Schedules 1 - 6)**

This product is classified under DIW Annex 5.6 Thailand Hazardous Act B.E.2535

**Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)**

**SSG4600B**

Methanol

Listed.

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status:**

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	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 NDSL Inventory:	n (negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

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

<b>Issue Date:</b>	2022/04/12
<b>Revision Date:</b>	No data available.
<b>Version #:</b>	1.0
<b>Source of information:</b>	No data available.
<b>Further Information:</b>	No data available.

---

**SSG4600B**

**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.

**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.

® and TM indicate trademarks owned by or licensed to Momentive.