



## MATERIAL SAFETY DATA SHEET

### JH-S69C SILANE COUPLING AGENT

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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Product Name: Bis-[3-(triethoxysilyl)propyl] tetrasulfide (50%) and Carbon black (50%)  
Supplier: Castle Chemicals Ltd, Peak House  
6 Oxford Road, Altrincham, Cheshire WA14 2DY  
Tel: +44 161 608 8800 Fax: +44 161 608 1910  
Email: [Info@castlechemicals.com](mailto:Info@castlechemicals.com)

#### 2. HAZARD IDENTIFICATION

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For additional information on toxicity, please refer to Section 11.

#### 3. COMPOSITION INFORMATION ON INGREDIENTS

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Chemical Name	CAS #	Content %
Bis-[3-(triethoxysilyl)propyl] tetrasulfide	40372-72-3	50%
Carbon black	1333-86-4	50%
Formula	N/A	

#### 4. FIRST AID MEASURES

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Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Get medical attention.  
Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if ill effects persist.  
Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Get medical attention if irritation or ill effects persist.  
Eye Exposure: In case of contact, immediately flush eyes with water for at least 15 minutes. Get medical attention.

## 5. FIREFIGHTING MEASURES

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Extinguishing Media	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Water can be used to cool fire exposed containers.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Specific Hazard(s)	Static electricity may accumulate and ignite suspended dust, causing an explosion. Bond and ground containers and equipment as appropriate. Also refer to standards that describe appropriate explosion prevention practices.

## 6. ACCIDENTAL RELEASE MEASURES

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Procedures(s) of Personal Precaution(s)	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Environmental Precautions	Do not let product enter drains
Methods for Cleaning up	Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Sweep, mop or wipe up and contain for salvage or disposal. Fine powders may require special vacuum filters; damp mopping or washing is preferred. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

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Handling	Use with adequate ventilation. Product evolves flammable ethyl alcohol on exposure to water or humid air. Provide ventilation during use to control ethanol within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.
Storage	Suitable: Keep tightly closed. Store in a cool dry place. Store away from oxidizing materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Engineering Controls	Local ventilation and general ventilation. Ethyl alcohol is formed upon contact with water or humid air. Mechanical exhaust required. Safety shower and eye bath.
Eye	Chemical safety goggles.
Skin	Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and

Respiratory	thoroughly flush affected areas with cool water. Chemical protective gloves are recommended. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand	Compatible chemical-resistant gloves.
General Hygiene Measures	Wash contaminated clothing before reuse. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance		
Physical State:	Solid	
Color:	Black	
Form:	Coarse powder	
Property	Value	at Temperature or Pressure
Molecular Weight	N/A	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
SG/Density	1.35 g/cm <sup>3</sup>	
Flash Point	N/A	
Explosion Limits	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Solubility	N/A	

N/A = not available

## 10. STABILITY AND REACTIVITY

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Stability	Stable.
Materials to Avoid:	Strong oxidizing agents. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8. Ethyl alcohol is formed upon contact with water or humid air.
Hazardous Decomp. Product	Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Sulfur oxides. Formaldehyde. Chlorine compounds.
Hazardous Polymerization	Hazardous Polymerization: Will not occur

## 11. TOXICOLOGICAL INFORMATION

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Route of exposure	Prolonged overexposure to Ethanol has caused human birth defects.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.
Inhalation:	Material may be irritating to mucous membranes and

Multiple Routes: upper respiratory tract.  
May be harmful by inhalation, ingestion, or skin absorption.

Signs/Symptoms of Exposure IARC Group 2B: Carbon black may possibly cause carcinogenic to humans.

## **12. ECOLOGICAL INFORMATION**

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No data available

## **13. DISPOSAL CONSIDERATIONS**

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Appropriate Method of Disposal of Substance or Preparation Observe all federal, state, and local environmental regulations.

## **14. TRANSPORT INFORMATION**

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ADR/RID Not dangerous goods  
IMDG Not dangerous goods  
IATA Non dangerous goods

## **15. REGULATORY INFORMATION**

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EU ADDITIONAL Classification  
Safety Statements: Avoid contact with skin and eyes.  
US Classification and Label Text  
Safety Statements: Avoid contact with skin and eyes.  
US Regulatory Information  
SARA Listed:  
Section 312 hazard class: No  
Acute: Yes  
Chronic: Yes  
Fire: No  
Pressure: No

## **16. OTHER INFORMATION**

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Disclaimer For R&D use only. Not for drug, household or other uses.  
Warranty The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Castle Chemicals Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

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