



## MATERIAL SAFETY DATA SHEET

### JH-S69 SILANE COUPLING AGENT

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

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Product Name: JH-S69 Silane Coupling Agent  
Bis[3-(triethoxysilyl)propyl]tetrasulfide  
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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Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

#### 3. COMPOSITION INFORMATION ON INGREDIENTS

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Chemical Name	CAS #
Bis-[3-(triethoxysilyl)propyl] tetrasulfide	40372-72-3
EC #	254-896-5
Molecular Weight	538.95 g/mol
Formula	$C_{18}H_{42}O_6S_4Si_2$

#### 4. FIRST AID MEASURES

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If Inhaled	If breathed in, move person into fresh air. If not breathing give artificial respiration.
In Case of Skin Contact	Wash off with soap and plenty of water.
In Case of Eye Contact	Flush eyes with water as a precaution.
If Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIREFIGHTING MEASURES

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Extinguishing Media	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

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Procedure of Personal Precaution	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods For Cleaning Up Environmental Precautions	place in closed containers for disposal. Do not let product enter drains

## 7. HANDLING AND STORAGE

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Handling	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Suitable: Keep tightly closed. Store in a cool dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Personal Protective Equipment	
Respiratory Protection	Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand Protection	For prolonged or repeated contact use protective gloves.
Eye Protection	Safety glasses
Hygiene Measures	General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance		
Color:	Light yellow	
Form:	Clear liquid	
Property	Value	at Temperature or Pressure
Molecular Weight	539 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Flash Point	> 100 °C	Closed cup
SG/Density	1.08 g/cm <sup>3</sup>	at 20 °C
Autoignition Temp	N/A	
Refractive Index	1.485	at 25 °C
Solubility	N/A	N/A = not available

## 10. STABILITY AND REACTIVITY

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Stability	Stable.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomp. Product	Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur oxides, Silicon oxide. Reacts with water to form: Ethanol
Hazardous Polymerization	Hazardous Polymerization: Will not occur

## 11. TOXICOLOGICAL INFORMATION

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Acute Toxicity	LD50 Oral	Rat	>17500mg/kg
	LD50 Oral	Rat	>33000mg/kg
	LD50 Dermal	Rat	>4983mg/kg
Irritation and Corrosion	Skin Rabbit	No skin irritation	
	Eyes Rabbit	No eye irritation	
Sensitisation	Will not Occur		
Chronic Exposure	IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
Route of exposure			
Skin Contact:	May cause skin irritation.		
Eye Contact:	May cause eye irritation.		
Inhalation:	Material may be irritating to mucous membranes and upper respiratory tract.		

## 12. ECOLOGICAL INFORMATION

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No data available

## 13. DISPOSAL CONSIDERATIONS

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Product	Observe all federal, state, and local environmental regulations.
Contaminated Packaging	Dispose of as unused product.

## 14. TRANSPORT INFORMATION

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Non-hazardous goods

## 15. REGULATORY INFORMATION

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Labelling according to EC Directives	
Further information:	The product does not need to be labelled in accordance with EC directives or respective national laws.

## **16. OTHER INFORMATION**

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Disclaimer  
Warranty

Not for drug, household or other uses.

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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