



## MATERIAL SAFETY DATA SHEET

### JH-S75C SILANE COUPLING AGENT

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

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Product Name: JH-S75C Silane Coupling Agent  
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 #	Active Ingredient Content %
Bis-[3-(triethoxysilyl)propyl] disulfide	56706-10-6	50%
Carbon Black	1333-86-4	50%

#### 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 copious amounts of 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 alcohol-resistant foam. Water can be used to cool fired 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 Hazards	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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Procedure of Personal Precaution	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
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 after material pickup is complete.
Environmental Precautions	Do not let product enter drains

## 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.

## 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.
Respiratory	Use respirators and components tested and approved under appropriate government standards such as NIOSH

Hand  
General Hygiene  
Measures

(US) or CEN (EU).  
Compatible chemical-resistant gloves.

Wash contaminated clothing before reuse. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	
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
Flash Point	N/A
SG/Density	1.36 g/cm <sup>3</sup>
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, humid air can cause hazardous vapors to form as described in section 8
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. Silicone dioxide. Sulfur oxides. Formaldehyde. Chlorine compounds.
Hazardous Polymerization	Hazardous Polymerization: Will not occur

## 11. TOXICOLOGICAL INFORMATION

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Chronic exposure	Prolonged overexposure to Ethanol has caused human birth defects
Signs and Symptoms of Exposure; IARC Group 2B:	Carbon black may possibly cause carcinogenic to humans.
Potential Health Effects	
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.
Inhalation:	Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion:	May be harmful if swallowed

## **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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Not dangerous goods

## **15. REGULATORY INFORMATION**

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Eu additional classification  
Us classification and label text  
United states regulatory information;  
SARA listed;

Safety statements: Avoid contact with skin and eyes.  
Safety statements: Avoid contact with skin and eyes.  
Section 312 hazard class: No  
Acute: Yes  
Chronic: Yes  
Fire: No  
Pressure: No

## **16. OTHER INFORMATION**

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Disclaimer  
Warranty

For R&D use only. 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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