

1. Identification of Substance and Company	
Product Name	: SIN RUBTECH® POLYMER BOUND PREDISPERSED Si 69 – 50G
Trade Name	: Si 69 – 50G
Manufacturer	: UA Rubber Speciality Chemical Sdn. Bhd.
Supplier	: Sin Rubtech Consultancy Sdn. Bhd.
Address	: 10-12 Jalan Industri Cherok To’Kun 2, Taman Industri Cherok To’Kun, 14000 Bukit Mertajam, Seberang Prai Utara, Penang, Malaysia.
Telephone	: 604 – 5511804
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Website / E-Mail	: www.sinrubtech.com / marketing@sinrubtech.com

2. Composition / Information on ingredients	
A proprietary predispersed 50% Bis - [3 - (Triethoxysilyl) propyl] - Tetrasulphide in a 50% elastomeric / processing aids binder.	
CAS No	Si 69 : 40372 – 72 – 3
	Binder : Trade Secret
Hazard Symbol	: Xn
R phrases	: 20/22, 36/37, 40 &43

3. Hazards Identification	
Hydrolysis may cause the formation of ethanol and a danger of explosion if exposed to sources of ignition. Harmful by inhalation and if swallowed. Irritating to eyes and respiratory system. May cause dermatitis and defatting on prolonged skin contact.	

4. First-aid Measures	
Inhalation	: After inhalation of vapours during processing remove to fresh air.
Skin Contact	: Wash with plenty of water and soap.
Eye Contact	: Wash with plenty of water and obtain medical attention if any sensation persists.
Ingestion	: Remove material from mouth. Wash with water. If large amounts swallowed or symptoms develop seek medical attention.

5. Fire-fighting Measures	
Extinguishing Media	: Dry chemical or carbon dioxide. Wear respiratory protection equipment during fire fighting. Avoid water spray as this may hydrolyse Si 69 with the formation of ethanol.
Special Protective Equipment	: Protective clothing and self-contained breathing equipment should be available for firemen.

Source of liquid silane is Degussa Si 69 from Degussa – Hüls AG Germany and the solid polymer bound form is manufactured under license by UA Rubber Speciality Chemical Sdn. Bhd.

6. Accidental Release Measures	
Methods for Cleaning / Collecting	: Take up mechanically. Avoid spilled material getting damp or entering drain or watercourses. Fill dry spilled materials into sealable containers.
7. Handling and Storage	
Handling	: No special precautions necessary but normal industrial good housekeeping practices should be followed as for any rubber additive.
Storage	: Store in cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use. Protect against electrostatic charge.
8. Exposure Controls / Personal Protection	
For exposure controls, see Chp. 15.	
Eye Protection	: Goggles.
Hand Protection	: Rubber gloves.
Avoid Contact with eyes and skin. Avoid ingestion.	
9. Physical and Chemical Properties	
Form/Colour/Odour	: Granules / Translucent Beige / Faint Alcoholic
pH	: Not Applicable.
Boiling Point	: Not Applicable.
Solidif./Melting Point	: Not Applicable.
Flash Point (8C)*	: ≥ 100 .
Ignition Temperature (°C)*	: ≥ 200 .
Explosive/oxidizing properties	: Explosive limits not determined. Avoid contact with water, acids and alkalis.
Vapor pressure (mbar/208C)	: Not Applicable.
Density (g/cm ³)	: 1.21 Approx.
Solubility in Organic Solvents	: Aromatic.
Solubility in Water	: Practically insoluble.
* Of active ingredient Si 69	
10. Stability and Reactivity	
Si 69 does not undergo hazardous polymerisation. Avoid contact with water, acids or alkalis as these can react to liberate ethanol. Combustion or decomposition will generate: ethanol, carbon monoxide, carbon dioxide and hydrogen sulphide.	
11. Toxicological Information	
LD 50 oral, rat : > 17500 mg/kg. LD 50 dermal rabbit : >8 mg/15 M. Reproductive Tetatology : None known	

12. Ecological Information

Not known

13. Disposal Consideration

Waste Disposal Method : Incinerate according to local regulations

Contaminated Container Disposal : Observe local regulations. Treat container and waste material as hazardous.

14. Transport Information

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA - DGR.

15. Regulatory Information

Labelling in accordance with Annex T of directive 57/548/EEC and its amendments and adaptations:

<u>Symbol</u>	<u>Hazard Description</u>
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Xn : Harmful

Contains : Bis - [3 - (Triethoxysilyl) propyl] – Tetrasulphide (Si 69)

<u>Risk phrase(s)</u>	<u>Definition</u>
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R 20/22 : Harmful by inhalation and if swallowed.

R 36/37 : Irritating to eyes and respiratory system.

R 40 : Possible risks of irreversible effects.

R 43 : May cause sensitisation by skin contact.

<u>Safety phrase(s)</u>	<u>Definition</u>
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S 36/37 : Wear suitable protective clothing and gloves.

May cause possible risks of irreversible effects.

16. Other Information (training needs, possible restrictions, data sources, etc)

Data Sources : Sin Rubtech Consultancy Sdn. Bhd.

Department issuing MSDS : Technical Department.

Contact : Sin Yoong Leong. Technical Manager

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