

**SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Coupling Agent SI-50****HS Code: 28309090.00****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

商品名称/Trade name	Coupling Agent SI-50 偶联剂 SI-50 美尔化工科技有限公司 Meyors Chemical INC Limited 深圳市罗湖区中兴路外贸集团大厦 2610-2611 室
供应商/ Supplier	RM 2610-2611 Foreign Trade Building, Zhong Xing Road Shen Zhen. China TEL:+86-755-82184166 FAX:+86-755-82187033
紧急电话/ Emergency telephone	+86-755-82190130
产品用途/ Intended use	硅烷偶联剂/ Silane Coupling Agents

**2. 成分/组成信息(COMPOSITION/INFORMATION ON INGREDIENTS)**

化学名/ Chemical name	双(3-三乙氧基硅烷基丙基)四硫化物 Bis(3-triethoxysilypropyl)tetrasulfide
CAS 编号/ CAS NO.	40372-72-3
产品描述/ Chemical description	透明淡黄米色颗粒/Translucent Beige granules
TSCA NO. 编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none

**3. 危险性概述(HAZARDS IDENTIFICATION)**

产品水解会产生乙醇，如接触火源，可能引起爆炸。刺激眼睛，皮肤。	Hydrolysis may cause the formation of ethanol and a danger of explosion of exposed to sources of ignition. Irritating to eyes, skin.
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**4. 急救措施(FIRST AID MEASURES)**

症状和效果/ Symptoms and effects	Repeated contact may cause skin sensitization. 经常接触可能导致皮肤过敏。
急救/ First aid	
通常情况/ General	In all cases of doubt, or when symptoms persist, seek medical attention. 任何可疑情况，或有任何症状出现，请马上找医生咨询。
吸入/ Inhalation	Move to fresh air. If symptoms persist, seek medical advice. 呼吸新鲜空气。如果有持续症状，请马上就医。 Remove all contaminated clothing immediately. Wash off with plenty of soap and water.
皮肤/ Skin	Seek medical advice if irritation develops. Launder clothes before reuse. 立即移走所有被污染的衣物。用肥皂和清水冲洗。 如果出现愤怒、烦躁症状请立即就医。衣物重新使用前需洗涤干净。



眼睛/ Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops. 翻开眼睑用清水冲洗干净。 确保洗除残渣。如果出现愤怒症状请就医。
摄取/ Ingestion	Rinse mouth, give water to drink. 请漱口，喝水。
医生建议/ Advice to physician	No specific recommendations. 无详细建议。

### 5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media	foam, dry chemical powder, CO <sub>2</sub> 泡沫，干粉灭火器，CO <sub>2</sub>
不适用的灭火媒介 / Unsuitable extinguishing media	waterjet. 水注（流）
特殊危险/ Special exposure hazards	None
分解腐烂危险/燃烧产品/ Hazardous decomposition/ combustion products	Carbon monoxide (CO), Sulfur oxides (SO <sub>x</sub> ) 一氧化碳，硫的氧化物。
保护设备/ Protective equipment	Wear self contained breathing apparatus. 需佩戴空气呼吸器。
其他信息/ Other information	Do not allow run-off from fire fighting to enter drains or water courses. 避免消防水接触下水道，土地或水源。

### 6. 泄露应急处理(ACCIDENTAL RELEASE MEASURES)

个人防范/ Personal precautions	For personal protection see Section 8. 对于个人防范请参照第 8 部分。
环境预防/ Environmental precautions	Avoid discharge into the environment. 避免流入环境之中。
清洁处理方法/ Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal. 尽可能的将其收集在清洁的容器里以便回收或集中处理。。

### 7. 操作处置与储存(HANDLING AND STORAGE)

操作处置/ Handling	Do not get in eyes, on skin, on clothing. 不要接触到眼睛，皮肤和衣服。 Store in a dry and cool place.
储存要求/ Storage requirements	Avoid direct sunshine, heat, fire fountain. 储存于干燥与阴凉的地方。 避免阳光直射，热源及火源

### 8. 接触控制/个体防护(EXPOSURE CONTROLS/PERSONAL PROTECTION)

工程学控制/ Engineering controls	Ensure good ventilation and local exhaustion of the working area. 确保当地工作场所通风。
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**暴露限制/ Exposure limits****个体防护/ Personal protection****呼吸器/ Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment.

在通风不畅的情况下请佩带相应的呼吸器。

**手/ Hand**

Wear suitable gloves.

佩戴相应的长手套。

**眼/ Eye**

Wear safety goggles.

佩戴防护眼罩。

**皮肤和身体/ Skin and body**

Wear suitable protective clothing.

穿戴相应的保护服装。

**9. 物理和化学特性(PHYSICAL AND CHEMICAL PROPERTIES)**

<b>外观/ Appearance</b>	Translucent granule 透明淡黄米色颗粒	<b>颜色/ Colour</b>	Beige Translucent Beige 透明淡黄米色
<b>气味/ Odor</b>	Faint alcoholic 略带乙醇气味	<b>沸点/ Boiling point</b>	not applicable 不能提供
<b>熔点/ Melting point</b>	80℃	<b>闪点/ Flash point</b>	>212℃
<b>易燃性/ Flammability</b>	not applicable 不能提供	<b>爆炸极限/ Explosion limits</b>	not applicable 不能提供
<b>爆炸性/ Explosive properties</b>	not applicable 不能提供	<b>自燃温度/ Auto-ignition temperature</b>	240℃
<b>比重/ Density</b>	1.2g/cm3	<b>颗粒强度/ Strength of grain(N)</b>	1.2-1.8
<b>溶解性/ Solubility in water</b>	Insoluble	<b>在其它溶剂中的溶解性/ Solubility in other solvents</b>	Acetone, Ethanol, xylene 丙酮, 乙醇, 二甲苯
<b>PH 值/ pH value</b>	not applicable 不能提供	<b>分解系数/ Partition coefficient</b>	not applicable 不能提供
<b>n-octanol/water</b>	not applicable 不能提供	<b>相对蒸汽密度/ (air=1)Relative vapour density</b>	not applicable 不能提供

**10. 稳定性和反应性(STABILITY AND REACTIVITY)****稳定性/ Stability**

Stable under recommended storage and handling conditions (see section 7).

**应避免的情况/ Conditions to avoid**

推荐的稳定储存和搬运条件 (请参照第 7 部分)

Decomposition temperature above 250℃.

温度大于 250℃产品会分解。

**应避免的物质/ Materials to avoid**

Strong alkalis

强碱



腐烂分解毒性产品/

Hazardous decomposition products

Thermal decomposition products: carbon monoxide (CO),  
Sulfur oxides (SO<sub>x</sub>).

热分解产品: 一氧化碳, 硫的氧化物。

### 11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name

双(3-三乙氧基硅烷基丙基)四硫化物  
Bis(3-triethoxysilypropyl)tetrasulfide

敏感性毒害/ Acute toxicity

口头的/ Oral LD50

Rat: >17500 mg/kg

皮肤的/ Dermal LD50

Rabbit: >4983 mg/kg

易愤怒/ Irritation

皮肤/ Skin

Slightly irritating to skin but not sufficient for classification.  
对皮肤有轻微刺激但未达到分级阶段。

眼睛/ Eye

Slightly irritating to eyes but not sufficient for classification.  
对眼有轻微刺激但未达到分级阶段。

### 12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name

双(3-三乙氧基硅烷基丙基)四硫化物  
Bis(3-triethoxysilypropyl)tetrasulfide

生态学/ Ecotoxicity

鱼/ fish

not applicable  
不能提供

水蚤/ daphnia

not applicable  
不能提供

藻类/ algae

not applicable  
不能提供

Fate

初级生物/ Degradation

Biotic

不能被轻易分解/ Not readily biodegradable.

### 13. 废弃处理(DISPOSAL CONSIDERATIONS)

产品/ Product

Avoid discharge into the environment.  
Small quantities: According to local regulations.  
Large quantities: Consult Meyors Chemical for special advice.  
避免流入环境。  
小量: 根据当地规定。  
大量: 请联系美尔化工获取建议。

包装污染/ Contaminated packaging

According to local regulations.  
根据当地规定。

其他信息/ Other information

Waste code number: Please refer to your specific industry in  
the European Waste Catalogue.  
消耗物代码: 请联系欧洲在消耗物领域的特殊工业。

### 14. 运输信息(TRANSPORT INFORMATION)

**陆运/ Land transport (ADR/ RID)**

<b>ADR 等级/ ADR class</b>		<b>RID 等级/ RID class</b>	
<b>ADR/RID 包装组成/</b>	III	<b>危害鉴定号/</b>	
<b>ADR/RID packing group</b>		<b>Hazard Identification No.</b>	
<b>物质鉴定号/</b>	3077	<b>UN 号</b>	3077
<b>Substance Identification No.</b>		<b>UN number</b>	
<b>适当海运名称/</b>	Environmentally hazardous substance, solid, n.o.s.		
<b>Proper Shipping Name</b>	(VulcaPellet SI-50), (Bis (3-triethoxysilypropyl)tetrasulfide)		
	环境危害物质, 固体, n.o.s		
	美尔药胶 SI-50, 双(3-三乙氧基硅烷基丙基)四硫化物		

**海运/ Sea transport (IMDG-code/ IMO)**

<b>正确的技术名称</b>	----	<b>IMDG 等级</b>	none
<b>Correct technical name</b>		<b>IMDG Class</b>	
<b>UN 号码/ UN Number</b>	Not relevant	<b>包装组成</b>	III
		<b>Packaging group</b>	
<b>EMS 号/ EMS Number</b>	Not relevant		----

**空运/ Air transport (ICAO-TI/ IATA-DGR)**

<b>ICAO-TI/IATA-DGR 等级</b>		<b>UN 号</b>	3077
<b>ICAO-TI/IATA-DGR Class</b>		<b>UN number</b>	
<b>包装组成</b>	Environmentally hazardous substance, Solid		
<b>Packing group</b>	对环境有害的物质, 固体。		
	Environmentally hazardous substance, solid, n.o.s.		
<b>正确的技术名称</b>	(VulcaPellet SI-50), (Bis(3-triethoxysilypropyl)tetrasulfide)		
<b>Correct technical name</b>	环境危害物质, 固体, n.o.s		
	美尔药胶 SI-50, 双(3-三乙氧基硅烷基丙基)四硫化物		

**15. 法规信息(REGULATORY INFORMATION)**

<b>化学品描述/ Chemical description</b>	双(3-三乙氧基硅烷基丙基)四硫化物 Bis(3-triethoxysilypropyl)tetrasulfide
<b>标签根据 EC 指标/ Labelling according to EC directives</b>	
<b>EC 号/ EC-number</b>	See section 2 查看第 2 部分
<b>分级标准/ Classification based on</b>	Annex-1 to directive 67/548/EEC 根据 67/548/EEC 指示
<b>危险性短语/ R(isk) phrase(s)</b>	R 20/21/22 /36/37/38 Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. R 20/21/22 /36/38 吸入, 接触皮肤, 吞食有害。刺激眼睛, 皮肤。
<b>安全性短语/ S(afety) phrase(s)</b>	S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36 Wear suitable protective clothing.



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其他信息/ Other information

Wassergefährdungsklasse (WGK)

S 24 接触到眼睛立即用水冲洗，遵循医嘱。

S 37 穿着合适的防护服。

To be displayed on the label: "EC label".

显示在"EC label"标签上。

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### 16. 其他信息(OTHER INFORMATION)

**This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.**

这些信息仅仅涉及以上提到的产品，如果用于其他产品或其他过程，本公司不付任何法律责任。这些信息是我们当前最新最好的资料编写而成，值得信任，但我们不能绝对保证没有错误。它仅仅起到提醒使用者自己使这些信息指导相关产品用于适当的地方。