



Safety Data Sheet according to GB/T 16483-2008

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HYSOL GR 900

SDS No. : 800000

V002.0

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1. Identification of the substance/preparation and of the company/undertaking

Product name: HYSOL GR 900

Intended use: Molding Compound

Company name:

Hysol Huawei Electronics Co.,Ltd
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2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin sensitizer	Category 1
Carcinogenicity	Category 2

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:



Signal word: Warning

Hazard statement: H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

Prevention: P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

3. Composition / information on ingredients

General description: Mixture
Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Silica, vitreous, 60676-86-0	80 - < 90%	
Phenolic resin 9003-35-4	1 - < 10 %	
2,2'-((3,5',5,5'-tetramethyl-(1,1'-biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis-oxirane 85954-11-6	1 - < 10 %	Skin sensitizer 1 H317 Carcinogenicity 2 H351
Carbon black 1333-86-4	0.1 - < 1 %	
3-Trimethoxysilylpropane-1-thiol 4420-74-0	0.1 - < 1 %	Acute toxicity 4; Oral H302 Skin sensitizer 1 H317 Chronic hazards to the aquatic environment 2 H411

4. First aid measures

- Skin contact:** Rinse with running water and soap.
Seek medical advice.
- Eye contact:** Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pain remains (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.
- Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
- Ingestion:** Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

5. Fire fighting measures

- Hazardous combustion products:** Oxides of carbon.
Irritating organic vapours.
- Extinguishing media:** Foam, dry chemical or carbon dioxide.
- Notice and measures for firing fighting:** If mixed with air in sufficient amounts and proportions, organic dusts can form flammable or explosive dust/air mixtures.
Do not breathe combustion gases.
Wear self-contained breathing apparatus.

6. Accidental release measures

- Emergency measures:** Keep away from sources of ignition and naked flames.
Ensure adequate ventilation.
Do not let product enter drains.
Depending on workplace dust concentration, wear dust filter mask with particle filter P1, P2 or P3.
Avoid dust formation.
- Clean-up methods:** Remove all sources of ignition.
Ensure adequate ventilation.
Remove mechanically.
Sweep up spilled material. Avoid creating dust.

7. Handling and storage

- Notice for handling:** Avoid naked flames, sparking and sources of ignition.
Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges.
Use only with adequate ventilation.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
- Notice for storage:** Store in container below 5°C.

Keep away from heat and direct sunlight.

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Carbon black	4 mg/m ³ TWA	3 mg/m ³ TWA		none

- Engineering controls:** Ensure adequate ventilation, especially in confined areas.
Extraction is necessary to remove fumes evolved during reflow.
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
- Respiratory protection:** Do not inhale dust.
In case of insufficient ventilation, wear suitable respiratory equipment.
- Eye protection:** Protective goggles
Avoid eye contact.
- Body protection:** Wear suitable protective clothing.
Protective clothing that covers arms and legs.
- Hand protection:** Avoid skin-contact.
Wear refractive gloves while working with the hot melt.
- Other protection:** The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008).

Pictograms for recommended PPE:



9. Physical and chemical properties

Physical state:	powder	Appearance:	black solid
Boiling point	Not applicable	Density:	1.8 - 2.1g/cm ³
pH:	Not available.	Melting point:	Not available.
Flash point:	Not applicable	Ignition temperature:	Not available.
Solubility in water	Insoluble	Viscosity:	Not available.

10. Stability and reactivity

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Danger of dust explosions. Take measures to prevent the build-up of electrostatic charges. Danger of decomposition if exposed to heat.
Incompatible products:	Reacts with strong oxidants. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Decomposition products:	Hydrocarbons Oxides of carbon. Irritating organic fragments.

11. Toxicological information

General toxicological information:

No experimental toxicological data on the preparation as such is available.

Other remarks:

Not available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2,2'-((3,5',5,5'- tetramethyl-(1,1'- biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	LD50 LD50	3,563 mg/kg > 2,000 mg/kg	oral dermal		rat rat	EU Method B.1 bis (Acute Oral Toxicity) EU Method B.3 (Acute Toxicity (Dermal))
3- Trimethoxysilylpropane- 1-thiol 4420-74-0	LD50	850 mg/kg	oral		rat	Not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2,2'-((3,5',5,5'- tetramethyl-(1,1'- biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	not irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2,2'-((3,5',5,5'- tetramethyl-(1,1'- biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	slightly irritating	24 h	rabbit	EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
2,2'-((3,5',5,5'- tetramethyl-(1,1'- biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	not sensitising	Buehler test	guinea pig	EU Method B.6 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2,2'-((3,5',5,5'- tetramethyl-(1,1'- biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	positive positive no data	bacterial gene mutation assay in vitro mammalian chromosome aberration test	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) EU Method B.10 (Mutagenicity)
2,2'-((3,5',5,5'- tetramethyl-(1,1'- biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	positive	intraperitoneal		mouse	EU Method B.12 (Mutagenicity)

12. Ecological information**General ecological information:**

Do not empty into drains / surface water / ground water.

Ecotoxicity:

May cause long-term adverse effects in the aquatic environment.

Other adverse effects:

Not available.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2,2'-((3,5',5,5'-tetramethyl- (1,1'-biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	LC50	> 0.1 mg/l	Fish	24 h	Oncorhynchus mykiss	EU Method C.1 (Acute Toxicity for Fish)
2,2'-((3,5',5,5'-tetramethyl- (1,1'-biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	EC50	> 0.15 mg/l	Daphnia	24 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
2,2'-((3,5',5,5'-tetramethyl- (1,1'-biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	NOEC	> 0.15 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	EU Method C.3 (Algal Inhibition test)
2,2'-((3,5',5,5'-tetramethyl- (1,1'-biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	EC50	> 0.15 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	EU Method C.3 (Algal Inhibition test)
3-Trimethoxysilylpropane-1- thiol 4420-74-0	LC50	439 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
3-Trimethoxysilylpropane-1- thiol 4420-74-0	EC50	6.7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3-Trimethoxysilylpropane-1- thiol 4420-74-0	EC50	267 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3-Trimethoxysilylpropane-1- thiol 4420-74-0	NOEC	40 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3-Trimethoxysilylpropane-1- thiol 4420-74-0	EC 50	440 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
3-Trimethoxysilylpropane-1- thiol 4420-74-0		aerobic	51 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2,2'-((3,5',5,5'-tetramethyl- (1,1'-biphenyl)-4,4'-diyl)- bis(oxyethylene))-bis- oxirane 85954-11-6	2.9				20 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

13. Disposal considerations

- Product disposal:** Not list in National Hazardous Waste Catalogue, dispose of as normal chemical waste. Dispose of in accordance with local and national regulations. Waste incineration with the approval of the responsible local authority.
- Disposal of uncleaned packages:** After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

- General information:**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- Notice For Transportation:** Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

Law of the People's Republic of China on Work Safety

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases

Law of the People's Republic of China on environmental protection

Regulation on the Safety Management of Hazardous Chemicals

Regulations on License to Work Safety

- China Inventory of Existing Chemicals:** All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

- Issue department:** SHE Department
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- Others:** The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.