



Safety Data Sheet according to GB/T 16483-2008

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HYSOL GR 30

SDS No. : 2184447

V001.0

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

Product name: HYSOL GR 30

Intended use: Molding Compound

Company name:

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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):

Hazard Class
Skin sensitizer

Hazard Category
Category 1

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.

Prevention:
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.

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

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 60676-86-0	50-<70%	
Si-oxide Quartz 14808-60-7	10-<20%	
Phenol-formaldehyde polymer 9003-35-4	1- < 10 %	Acute toxicity 5; Oral H303 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1 H317 Specific target organ toxicity - single exposure 3 H335
3-Trimethoxysilylpropane-1- thiol 4420-74-0	0.1- < 1 %	Acute toxicity 4; Oral H302 Skin sensitizer 1 H317 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Triphenylphosphine 603-35-0	0.1- < 1 %	Acute toxicity 4; Oral H302 Acute toxicity 5; Dermal H313 Skin sensitizer 1 H317 Specific target organ toxicity - repeated exposure 2 H373 Chronic hazards to the aquatic environment 4 H413
Ethene, homopolymer 9002-88-4	0.1-<1%	
Carbon Black 1333-86-4	0.1-<1%	

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 pains remain (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

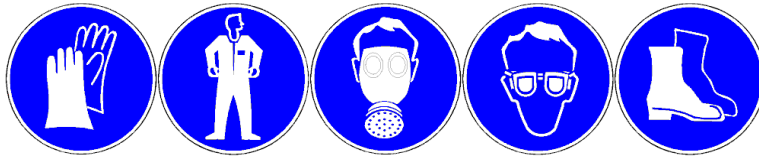
Notice for handling:	Avoid naked flames, sparking and sources of ignition. Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Notice for storage:	Store in a cool, dry place. Keep away from heat and direct sunlight.

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Quartz (SiO ₂)	0.7 mg/m ³ PC-TWA 1 mg/m ³ PC-TWA 0.3 mg/m ³ PC-TWA 0.7 mg/m ³ PC-TWA 0.5 mg/m ³ PC-TWA 0.2 mg/m ³ PC-TWA	0.025 mg/m ³ TWA		none
Ethene, homopolymer	5 mg/m ³ PC-TWA	10 mg/m ³ TWA 3 mg/m ³ TWA		none
Carbon black	4 mg/m ³ PC-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
pH:	Not available.	Melting point:	Not available.
Boiling point:	Not available.	Density:	1.9-2.2 g/cm ³
Flash point:	solid	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.

Oral toxicity:

Acute toxicity estimate (ATE) : > 5,000 mg/kg
Method: Calculation method

Other remarks:

Not available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Phenol-formaldehyde polymer 9003-35-4	LD50	4,100 mg/kg	oral		rat	not specified
3- Trimethoxysilylpropane- 1-thiol 4420-74-0	LD50	850 mg/kg	oral		rat	not specified
Triphenylphosphine 603-35-0	LD50	700 mg/kg	oral	4 h	rat	BASF Test
	LC50	12.5 mg/l	inhalation		rat	not specified
	LD50	> 4,000 mg/kg	dermal		rabbit	BASF Test

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Triphenylphosphine 603-35-0	not irritating	20 h	rabbit	BASF Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Triphenylphosphine 603-35-0	not irritating	24 h	rabbit	BASF Test

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Triphenylphosphine 603-35-0	sensitising	Guinea pig maximisation 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
Triphenylphosphine 603-35-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Triphenylphosphine 603-35-0	NOAEL=6 mg/kg	oral: gavage	91 days 7 days/week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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

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

Ecotoxicity:

No data available.

Other adverse effects:

Not available.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
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)
Triphenylphosphine 603-35-0	Not readily biodegradable.	aerobic	< 20 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Triphenylphosphine 603-35-0	5.69					OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring 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.

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.