

HYSOL GR 2822

Safety Data Sheet according to (EC) No 1907/2006

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SDS No.: 800023

V001.0 Revision: 11.11.2018

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

HYSOL GR 2822

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Molding Compound

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hysol Huawei Electronic Co., Ltd.

Songtiao Industrial Zone, Lianyungang, Jiangsu, China,

222000

T: +86 518-85155187

F: +86 518-85155060

1.4. Emergency telephone number

24 Hours Emergency Tel: +86 18115208319

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

No classification required

2.2. Label elements Label elements (CLP):

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Epoxy resin

Base substances of preparation:

resins organic amine Filler

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Silica, vitreous 60676-86-0	262-373-8	80- < 95%	Not classified
Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol 29690-82-2	-	1- < 10 %	Not classified
3-Mercaptopropyl trimethoxylsilane 4420-74-0	224-588-5	0.1- < 1 %	Skin Sens. 1, H317 Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
Carbon black 1333-86-4	215-609-9	0.1-< 1 %	Not classified

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap.

Eye contact

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remains (intensive smarting, sensivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

Danger of decomposition if exposed to heat.

5.3. Advice for firefighters

Do not breathe combustion gases.

Wear self-contained breathing apparatus.

Additional information:

Avoid open flames and sources of ignition.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Depending on workplace dust concentration, wear dust filter mask with particle filter P1, P2 or P3.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

6.2. Environmental precautions

Do not allow to enter the ground / soil.

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition.

Remove mechanically.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Ensure adequate ventilation.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid dust formation.

Avoid naked flames, sparking and sources of ignition.

Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Store in a cool, dry place.

Keep away from heat and direct sunlight.

7.3. Specific end use(s)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Silica, vitreous	Limit value - Eight hours	Limit value - Eight hours	Limit value - Short term	Limit value - Short term
60676-86-0	ppm	mg/m ³	ppm	mg/m³
Austria	Not available	0,3	Not available	Not available
Belgium	Not available	0,1	Not available	Not available
Denmark	Not available	0,1	Not available	0,2
Germany (AGS)	Not available	0,3 respirable aerosol	Not available	Not available
Germany (DFG)	Not available	0,3 respirable aerosol	Not available	Not available
Ireland	Not available	0,08	Not available	Not available
Switzerland	Not available	0,3 respirable aerosol	Not available	Not available
USA - NIOSH	Not available	0,05	Not available	Not available
United Kingdom	Not available	0,08	Not available	Not available

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

In use may form flammable/explosive dust-air mixtures.

Thorough dedusting.

Avoid naked flames, sparking and sources of ignition.

Ensure good ventilation/suction at the workplace.

No further information, see section 7.

Respiratory protection:

Do not inhale dust.

In case of insufficient ventilation, wear suitable respiratory equipment.

Depending on workplace dust concentration, wear dust filter mask with particle filter P1, P2 or P3.

Ensure adequate ventilation.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; \geq = 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Wear refractive gloves while working with the hot melt.

Eye protection:

Protective goggles

Avoid eye contact.

Skin protection:

Wear suitable protective clothing.

Protective clothing that covers arms and legs.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance solid material

granules, tablet

black

Odor little intrinsic odour

Odour threshold No data available / Not applicable

pH No data available / Not applicable

Initial boiling point Polymerization may occur at elevated temperature.

Flash point Product is a solid.

Decomposition temperature No data available / Not applicable Vapour pressure No data available / Not applicable

Density 1,7 - 2,1 g/cm3

(20 °C (68 °F))

Bulk density

No data available / Not applicable
Viscosity

No data available / Not applicable
Viscosity (kinematic)

No data available / Not applicable
Explosive properties

No data available / Not applicable

Solubility (qualitative) Insoluble

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Partially miscible

(20 °C (68 °F); Solvent: ketones)

Solidification temperature No data available / Not applicable No data available / Not applicable Melting point Flammability No data available / Not applicable Auto-ignition temperature No data available / Not applicable Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density Oxidising properties No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

Polymerization may occur at elevated temperature or in the presence of incompatible materials.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

Danger of dust explosions.

Take measures to prevent the build-up of electrostatic charges.

10.5. Incompatible materials

See section reactivity

10.6. Hazardous decomposition products

Hydrocarbons

Oxides of carbon.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin irritation:

slightly irritating, does not require labeling.

Eye irritation:

Prolonged or repeated contact may cause eye irritation.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
3- Trimethoxysilylpropane- 1-thiol 4420-74-0	LD50	850 mg/kg	oral		rat	Not specified

Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		

Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:

Do not empty into drains \slash surface water \slash ground water.

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
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)

12.2. Persistence and degradability

Persistence and Biodegradability:

The product is not biodegradable.

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

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

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Bioaccumulative potential:

No data available.

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
3-Trimethoxysilylpropane-1-thiol 4420-74-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Waste incineration with the approval of the responsible local authority.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packaging group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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VOC content (1999/13/EC)

< 3 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.