HYSOL GR510-HP

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 21/03/2018 Revision date: 21/03/2018 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : HYSOL GR510-HP

Intended Use Epoxy Molding Compound

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

1.2.1. Relevant identified uses

Uesd as epoxy molding compound.

1.2.2. Uses advised against

No additional information available

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

Importer

1.4. Emergency telephone number

Emergency number : +86 18115208319

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Hazardous ingredients : Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol; 3-Mercaptopropyltrimethoxysilane

Hazard statements (CLP) : H317 - May cause an allergic skin reaction

Precautionary statements (CLP) : 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
P302+P352 - IF ON SKIN: Wash with plenty of water
P321 - Specific treatment (see supplemental first aid instruction on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

SECTION 3: Composition/information on ingredients

Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silica, vitreous	(CAS-No.) 60676-86-0 (EC-No.) 262-373-8;424-440-1	87 - 89	Not classified
Epoxy resin	-	5 - 6	Not classified
Phenolic resin	-	3.5-4.5	Not classified
Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	(CAS-No.) 29690-82-2	0.5 - 1.5	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9;435-640-3	0.2 - 0.4	Carc. 2, H351
Ion Catcher	-	0.2 - 0.4	Not classified
3-Mercaptopropyltrimethoxysilane	(CAS-No.) 4420-74-0 (EC-No.) 224-588-5	0.1 - 0.3	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Stress modifier	-	0.1 - 0.3	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silica, vitreous (60676-86-0)		
Austria	MAK (mg/m³)	0.3 mg/m³ (respirable fraction)
Belgium	Limit value (mg/m³)	0.1 mg/m³ (alveolar dust)
Bulgaria	OEL TWA (mg/m³)	0.07 mg/m³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	0.08 mg/m³ (respirable dust)
Denmark	Grænseværdie (langvarig) (mg/m³)	0.1 mg/m³ (respirable)
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	0.3 mg/m³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-respirable fraction)
Ireland	OEL (8 hours ref) (mg/m³)	0.08 mg/m³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m3)	0.24 mg/m³ (calculated-respirable dust)
Poland	NDS (mg/m³)	2 mg/m³ (inhalable fraction) 1 mg/m³ (respirable fraction)
Slovenia	OEL TWA (mg/m³)	0.3 mg/m³ (respirable fraction)
United Kingdom	WEL TWA (mg/m³)	0.08 mg/m³ (respirable dust)
United Kingdom	WEL STEL (mg/m³)	0.24 mg/m³ (calculated-respirable dust)
Russian Federation	OEL TWA (mg/m³)	1 mg/m³ (disintegration aerosol, total mass of aerosols)
Switzerland	MAK (mg/m³)	0.3 mg/m³ (respirable dust)
Canada (Quebec)	VEMP (mg/m³)	0.1 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)

Carbon black (1333-86-4)		
Belgium	Limit value (mg/m³)	3.5 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	3.5 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	7 mg/m³
Czech Republic	Expoziční limity (PEL) (mg/m³)	2 mg/m³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m³)	3.5 mg/m³
Estonia	OEL TWA (mg/m³)	3 mg/m³ (dust)
Finland	HTP-arvo (8h) (mg/m³)	3.5 mg/m³
Finland	HTP-arvo (15 min)	7 mg/m³
France	VME (mg/m³)	3.5 mg/m³
Greece	OEL TWA (mg/m³)	3.5 mg/m³
Greece	OEL STEL (mg/m³)	7 mg/m³
Ireland	OEL (8 hours ref) (mg/m³)	3 mg/m³ (inhalable fraction)
Ireland	OEL (15 min ref) (mg/m3)	15 mg/m³ (calculated-inhalable fraction)
Poland	NDS (mg/m³)	4 mg/m³ (applies to Carbon black containing Benzo(a)pyrene < 35 mg in 1 kg of Carbon black-total inhalable dust)
Portugal	OEL TWA (mg/m³)	3.5 mg/m³

Carbon black (1333-86-4)		
Slovakia	NPHV (priemerná) (mg/m³)	2 mg/m³ (respirable fraction, 5% or less fibrogenic component) 10 mg/m³ (respirable fraction, greater than 5% fibrogenic component) 10 mg/m³ (total aerosol)
Spain	VLA-ED (mg/m³)	3.5 mg/m³
Sweden	nivågränsvärde (NVG) (mg/m³)	3 mg/m³ (total dust)
United Kingdom	WEL TWA (mg/m³)	3.5 mg/m³
United Kingdom	WEL STEL (mg/m³)	7 mg/m³
Norway	Grenseverdier (AN) (mg/m³)	3.5 mg/m³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	7 mg/m³ (value calculated)
Australia	TWA (mg/m³)	3 mg/m³
Canada (Quebec)	VEMP (mg/m³)	3.5 mg/m³
USA - ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable particulate matter)
USA - IDLH	US IDLH (mg/m³)	1750 mg/m³
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA - OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	Black.
Odour	:	No data available
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	Not applicable

Density	:	1.8 - 2.1 g/cm³
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Carbon black (1333-86-4)	
LD50 oral rat	> 15400 mg/kg

3-Mercaptopropyltrimethoxysilane (4420-74-0)	
LD50 oral rat	730 µl/kg

Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	:	Not classified
Chronic aquatic toxicity	:	Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are listed

Denmark

Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:
None.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50	Median effective concentration
IATA	International Air Transport Association
LC50	Median lethal concentration
LD50	Median lethal dose
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources	:	LOLI.
Training advice	:	Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	:	None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 2	Carcinogenicity, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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

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