



Compiled according to GB/T 16483, GB/T 17519

HYSOL GR 910K

SDS No. : 20220904

V001.0

Revision: 23th. Sep. 2022

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

Product name:	: HYSOL GR 910K
Name of supplier	: Hysol Huawei Electronics Co.,Ltd
Address	: No.8 Zhenhua Road, High-tech Industrial Development Zone, Lianyungang, Jiangsu
Zip code	: 222006
Fax	: +86 518 85153825
Tel.	: +86 518-85155187
E-mail	: SDS@hysolhuawei.com
Emergency number	: +86 518-81089316
Recommended use of the chemical	: Epoxy molding compound
Restricted use of the chemical	: No information available

2. Hazards identification

Emergency overview

The product is black odourless solid.

Causes mild skin irritation. May cause an allergic skin reaction. May cause genetic defects. Suspected of causing cancer. May damage fertility or the unborn child.

GHS hazard classification

Health hazards	: Skin corrosion/irritation, Category 3
	: Skin sensitization, Category 1
	: Germ cell mutagenicity, Category 1B
	: Carcinogenicity, Category 2
	: Reproductive toxicity, Category 1B

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN)	:  
Signal word (GHS CN)	: Danger.
Hazard statements (GHS CN)	: H316 - Causes mild skin irritation H317 - May cause an allergic skin reaction H340 - May cause genetic defects H351 - Suspected of causing cancer H360 - May damage fertility or the unborn child.

Precautionary statements (GHS CN)

Prevention measures	: 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.
Incident response	: P302+P352 - IF ON SKIN: Wash with plenty of water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
Safe storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Physical and chemical hazards

No additional information available

Health hazards

Causes mild skin irritation
May cause an allergic skin reaction
May cause genetic defects
Suspected of causing cancer
May damage fertility or the unborn child

Environmental hazards

No additional information available

Other hazards

No additional information available

3. Composition / information on ingredients

Product form : Mixture.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.	GHS Classification
Silica, vitreous	70 – 90	60676-86-0	Not classified
2,2'-((3,3',5,5'-Tetramethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(oxymethylene))-bis-oxirane	1 – 10	85954-11-6	Skin Sen. 1 H317 Carc. 2 H351
4,4'-Bis(2,3-epoxypropoxy)biphenyl	1 – 10	2461-46-3	Skin Irrit. 2 H315 Skin Sen. 1 H317 Muta. 2 H341
Phenolic resin	1 – 10	Trade secret	Muta. 1B H340 Repr. 1B H360

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.	GHS Classification
Benzenamine, N-[3-(trimethoxysilyl)propyl]-	0.1 – 1	3068-76-6	Acute Tox. 4 H302
Carbon black	0.1 – 1	1333-86-4	Not classified

4. First aid measures

Description of necessary first-aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
Keep victim warm and rested.
If you feel unwell, seek medical advice
- First-aid measures after skin contact : Wash skin thoroughly with mild soap and water.
Take off contaminated clothing.
Immediately call a POISON CENTER/doctor.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.
Rinse eyes with water as a precaution
- First-aid measures after ingestion : Rinse mouth out with water.
Do not induce vomiting.
Call a physician immediately

Most important symptoms/effects

- Symptoms/effects : May cause an allergic skin reaction
May cause genetic defects
Suspected of causing cancer
May damage fertility or the unborn child

Advices for first aid responders

Do not attempt to take action without suitable protective equipment, Wear personal protective equipment.

Notes for the doctor

- Other medical advice or treatment : Treat symptomatically

5. Fire fighting measures

Extinguishing media

- Suitable extinguishing media : Carbon dioxide
Water spray
Dry powder
Foam
- Unsuitable extinguishing media : No information available

Specific hazards

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

Advice for firefighters and protective measures

- Firefighting instructions : Cool containers / tanks with spray water if possible
Evacuate personnel to a safe area
Get the package away from the fire if this can be done without risk
Ensure adequate ventilation, especially in confined areas

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions, Protective Equipment and Emergency Procedures : Avoid contact with skin, eyes and clothing
Avoid breathing dust, mist or spray
Avoid ignition sources
Ensure adequate ventilation, especially in confined areas
Use personal protective equipment as required.

For non-emergency personnel

Emergency procedures : Avoid breathing dust, mist or spray
Advise local authorities if considered necessary
Eliminate all ignition sources if safe to do so.
Evacuate unnecessary personnel
Only qualified personnel equipped with suitable protective equipment may intervene
Avoid breathing dust/fume/gas/mist/vapours/spray.

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"

Environmental precautions

Avoid release to the environment.
Notify authorities if product enters sewers or public waters
Avoid the spillage or runoff entering drains, sewers or watercourses

Methods and material for containment and cleaning up

Methods for cleaning : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal
Sweep up or vacuum up the product
Access forbidden to unauthorised personnel
Avoid all unnecessary exposure
Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations
For containment : Collect spillage.

Prevention measures for secondary accidents

Prevention Measures for Secondary Accidents : Remove all sources of ignition
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Other information : Dispose of materials or solid residues at an authorized site

7. Handling and storage

Handling

Precautions for safe handling : Ensure good ventilation of the work station
Avoid dust generation.
Avoid breathing dust, mist or spray

	Avoid ignition sources Avoid the build-up of electrostatic charge Protect cylinders from physical damage; do not drag, roll, slide or drop. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment Take all necessary technical measures to avoid or minimize the release of the product on the workplace Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers Provide local exhaust or general room ventilation Floors, walls and other surfaces in the hazard area must be cleaned regularly Avoid contact with skin and eyes Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product
Local and general ventilation	: Ensure adequate ventilation, especially in confined areas
Storage	
Storage conditions	: Avoid ignition sources Store in a cool, well-ventilated place Containers which are opened should be properly resealed and kept upright to prevent leakage Keep away from heat and direct sunlight Store locked up. Store in a well-ventilated place. Keep cool.
Technical measures	: Keep only in the original container Containers which are opened should be properly resealed and kept upright to prevent leakage Avoid contact with skin and eyes
Material used in packaging/containers	: No additional information available
Incompatible materials	: No information available.

8. Exposure controls / personal protection

Occupational exposure limits

Carbon black (1333-86-4)	
China - Occupational Exposure Limits	
Local name	炭黑粉尘 # Carbon black dust
OEL PC-TWA	4 mg/m ³ (total dust)
Chemical category	Possibly carcinogenic to humans dust
Catalogue of Occupational Hazard Factors	Category 1 - Dusts
Remark (CN)	G2B (对人可疑致癌 (Possibly carcinogenic to humans))

Carbon black (1333-86-4)	
Regulatory reference	GBZ 2.1-2019
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	3 mg/m ³ (inhalable particulate matter)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans

Biological limit values

No additional information available

Monitoring methods

No additional information available

Appropriate engineering controls

Emergency eye wash fountain with clean water

Ensure good ventilation of the work station

Personal protective equipment

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

9. Physical and chemical properties

Physical state : Solid

Appearance : Black solid

Colour : Black

Odour : Odourless

pH : No data available

Melting point : No data available

Freezing point : Not applicable.

Boiling point : Not applicable.

Flash point : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : No data available

Flammability : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : 1.8 – 2.1

Density : 1.8 – 2.1 g/cm³

Solubility : Insoluble in water.

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : Not applicable.

Explosive limits (vol %) : Not applicable.

Lower explosion limit : No data available

Upper explosion limit : No data available

Radioactive : No
Explosive properties : No data available
Oxidising properties : No data available

10. Stability and reactivity

Chemical stability : Stable under normal conditions
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use
Conditions to avoid : None under recommended storage and handling conditions (see section 7)
Incompatible materials : No information available
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological information

Acute toxicity

Acute toxicity (oral) : No data available
 Acute toxicity (dermal) : No data available
 Acute toxicity (inhalation) : No data available

Carbon black (1333-86-4)

LD50 oral rat	> 15400 mg/kg
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA

Skin corrosion/irritation

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation

Serious eye damage/irritation : No data available

Respiratory or skin sensitisation

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity

Carcinogenicity : Suspected of causing cancer.

Silica, vitreous (60676-86-0)

IARC group	3 - Not classifiable
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Carbon black (1333-86-4)

IARC group	2B - Possibly carcinogenic to humans
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Reproductive toxicity

Reproductive toxicity : May damage fertility or the unborn child.

STOT - single exposure

STOT-single exposure : No data available

STOT - repeated exposure

STOT-repeated exposure : No data available

Carbon black (1333-86-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male

Aspiration hazard

Aspiration hazard : No data available

12. Ecological information**Ecotoxicity**

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

Hazardous to the aquatic environment, short-term (acute) : No data available

Hazardous to the aquatic environment, long-term (chronic) : No data available

Carbon black (1333-86-4)	
LC50 - Fish [1]	> 1000 mg/l
ErC50 algae	> 10000 mg/l Source: EHCA

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

Classification procedure (Ozone) : No data available

13. Disposal considerations

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

Contaminated packaging : Dispose of contents/container in accordance with licensed collector's sorting instructions.

14. Transport information

Overland transport (JT/T 617)	UN RTDG	Transport by sea	Air transport	Inland waterway transport	Rail transport
UN number					
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated

Overland transport (JT/T 617)	UN RTDG	Transport by sea	Air transport	Inland waterway transport	Rail transport
Proper shipping name					
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated
Transport document description					
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class(es)					
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated
Packing group					
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards					
Not applicable.	Not applicable.	Not regulated	Not regulated	Not regulated	Not regulated

Special transport precautions

Overland transport (JT/T 617)

Not applicable.

UN RTDG

Not applicable.

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

15. Regulations - classification and identification

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

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances : All components are listed or are exempt from Inventory of Existing in China (IECSC)
Chemical Substances in China.

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

Catalogue of Hazardous Chemicals (2015) : Not listed

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

Catalogue for Classification of Hazardous : Contains listed substance(s)

Factors of Occupational Diseases Carbon black dust (CAS-No. 1333-86-4)

Other domestic regulatory lists

Dangerous Goods List (GB 12268-2012) : Not regulated

16. Other information

Version : 1.0
Issue date : 9/23/2022
Revision date : 9/23/2022
Data sources LOLI
 ECHA reference
 Catalogue of Hazardous Chemical (2015)

Abbreviations and acronyms

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

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging and in line with the expectations of a professional user

Other information : No information available

Indication of changes

Not applicable

Safety Data Sheet (SDS), China

Issue department: SHE Department

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