

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

Page 1 of 10

SDS No.: 1173700

V001.0 Revision: 31.03.2018

printing date: 31.03.2018

Category 1

HYSOL KL-G 200S

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

1.1. Product identifier

HYSOL KL-G 200S

Contains:

Phenol-formaldehyde polymer 1H-Imidazole, 2-ethyl-4-methyl-

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,

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):

Skin sensitizer

H317 May cause an allergic skin reaction.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



SDS-No.: 1173700 HYSOL KL-G 200S Page 2 of 10

V001.0

Warning

Hazard statement:

Signal word:

H317 May cause an allergic skin reaction.

Precautionary statement:

P280 Wear protective gloves.

Prevention

Precautionary statement:

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Response

2.3. Other hazards

None if used properly.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous components CAS-No.	EC Number	content	Classification
Si-oxide Quartz 14808-60-7	238-878-4	30- <50%	Not classified
Silicon dioxide 7631-86-9	231-545-4	10- <30%	Not classified
Silica, vitreous 60676-86-0	262-373-8	10- <30%	Not classified
Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol 29690-82-2	-	10- < 20 %	Not classified
Phenol-formaldehyde polymer 9003-35-4	500-005-2	5-<10 %	Eye Irrit. 2 H319 STOT SE 3 H335 Skin Sens. 1 H317
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2	213-234-5	0,1-<1 %	Acute Tox. 4; Oral H302 Eye Dam. 1 H318 Skin Irrit. 2 H315 Skin Sens. 1B H317

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:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

SDS-No.: 1173700 HYSOL KL-G 200S Page 3 of 10

V001.0

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

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

In case of fire, keep containers cool with water spray.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Remove sources of ignition.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Keep container tightly sealed.

Refer to Technical Data Sheet

SDS-No.: 1173700 HYSOL KL-G 200S Page 4 of 10

V001.0

7.3. Specific end use(s) Molding Compound

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Silica, vitreous 60676-86-0	Limit value - Eight hours		Limit value - Short term		
	ppm	mg/m ³	ppm	mg/m ³	
Austria		0,3			
Belgium		0,1			
Denmark		0,1		0,2	
Germany (AGS)		0,3 respirable aerosol			
Germany (DFG)		0,3 respirable aerosol			
Ireland		0,08			
Switzerland		0,3 respirable aerosol			
USA - NIOSH		0,05			
United Kingdom		0,08			

Silica, vitreous 60676-86-0	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Austria		0,3		
Belgium		0,1		
Denmark		0,1		0,2
Germany (AGS)		0,3 respirable aerosol		
Germany (DFG)		0,3 respirable aerosol		
Ireland		0,08		
Switzerland		0,3 respirable aerosol		
USA - NIOSH		0,05		
United Kingdom		0,08		

SDS-No.: 1173700 HYSOL KL-G 200S Page 5 of 10

V001.0

Quartz	Limit value - Eight hours	Limit value - Eight hours	Limit value - Short term	Limit value - Short term
14808-60-7	ppm	mg/m ³	ppm	mg/m ³
Austria		0,15 respirable aerosol		
Belgium		0,1		
Denmark		0,3 inhalable aerosol		0,6 inhalable aerosol
Denmark		0,1 respirable aerosol		0,2 respirable aerosol
Finland		0,05 (Respirable fraction)		
France		0,1 respirable aerosol		
Hungary		0,15 respirable aerosol		
Ireland		0,1 (Respirable fraction)		
Spain		0,1 (Respirable fraction)		
Sweden		0,1 respirable aerosol		
Switzerland		0,15 respirable aerosol		
The Netherlands		0,075 respirable dust		
USA - NIOSH		0,05		
USA - OSHA		30/(%silica+2) total dust		
USA - OSHA		10/(%silica+2) respirable dust		
	1	1		

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value	Value			Remarks
	F	P	mg/l	ppm	mg/kg	others	
2-Ethyl-4-methylimidazole 931-36-2	aqua (freshwater)					0,0681 mg/L	
2-Ethyl-4-methylimidazole 931-36-2	aqua (marine water)					0,00681 mg/L	
2-Ethyl-4-methylimidazole 931-36-2	aqua (intermittent releases)					0,681 mg/L	
2-Ethyl-4-methylimidazole 931-36-2	STP					65 mg/L	
2-Ethyl-4-methylimidazole 931-36-2	sediment (freshwater)				34,9 mg/kg		
2-Ethyl-4-methylimidazole 931-36-2	sediment (marine water)				3,49 mg/kg		
2-Ethyl-4-methylimidazole 931-36-2	soil				6,91 mg/kg		

SDS-No.: 1173700 HYSOL KL-G 200S Page 6 of 10

V001.0

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-Ethyl-4-methylimidazole 931-36-2	Workers	inhalation	Long term exposure - systemic effects		4,41 mg/m3	
2-Ethyl-4-methylimidazole 931-36-2	Workers	Dermal	Long term exposure - local effects		0,289 mg/cm2	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly

Filter type: A

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; >= 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.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance solid black
Odor odorless

Odour threshold No data available / Not applicable pH No data available / Not applicable Initial boiling point No data available / Not applicable

Flash point Not applicable

Decomposition temperature

Vapour pressure

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

(Solvent: Water)

Solidification temperature
Melting point
No data available / Not applicable
No data available / Not applicable
Flammability
No data available / Not applicable
Auto-ignition temperature
No data available / Not applicable

SDS-No.: 1173700 HYSOL KL-G 200S Page 7 of 10

V001.0

Explosive limits

No data available / Not applicable
Partition coefficient: n-octanol/water

No data available / Not applicable
Evaporation rate

No data available / Not applicable
Vapor density

No data available / Not applicable
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 alcohols and amines. Reacts with oxidants, acids and lyes

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

Hydrocarbons carbon oxides. nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

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:

Prolonged or repeated contact may cause skin irritation.

Eye irritation:

Prolonged or repeated contact may cause eye irritation.

Sensitizing:

May cause sensitization by skin contact.

Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Phenol-formaldehyde	LD50	4.100 mg/kg	oral		rat	
polymer						
9003-35-4						
1H-Imidazole, 2-ethyl-4-	LD50	622 mg/kg	oral		rat	
methyl-						
931-36-2						
4420-74-0						

Acute inhalative toxicity:

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

Acute dermal toxicity:

SDS-No.: 1173700 HYSOL KL-G 200S Page 8 of 10

V001.0

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

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1H-Imidazole, 2-ethyl-4- methyl-	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
931-36-2				ŕ

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1H-Imidazole, 2-ethyl-4-	highly irritating		rabbit	OECD Guideline 405 (Acute
methyl-				Eye Irritation / Corrosion)
931-36-2				-

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 / surface water / ground water.

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time		
			Study			
1H-Imidazole, 2-ethyl-4- methyl- 931-36-2	LC50	68,1 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15

12.2. Persistence and degradability

Persistence and Biodegradability:

The product is not biodegradable.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
1H-Imidazole, 2-ethyl-4-	readily biodegradable	aerobic	86 %	OECD Guideline 301 A (new
methyl-				version) (Ready Biodegradability:
931-36-2				DOC Die Away Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

Bioaccumulative potential:

No data available.

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
1H-Imidazole, 2-ethyl-4-methyl-931-36-2	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

SDS-No.: 1173700 HYSOL KL-G 200S Page 9 of 10

V001.0

13.1. Waste treatment methods

Product disposal:

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

Dispose of in accordance with local and national regulations.

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.

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

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

VOC content < 3 % (1999/13/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SDS-No.: 1173700 HYSOL KL-G 200S Page 10 of 10

V001.0

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:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.