Safety Data Sheet GS-711-1

Version : V1.0.0.1 Report No : GS-711-1-01M Creation Date : 2018/04/01 Revision Date : 2018/04/01



*Prepared according to UN GHS (the 6th revised edition)

1 Identification of the chemical and supplier

Product identifier

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Product Name	GS-711-1
Cat No.	GS-711-1
Synonyms	-
CAS No.	-
EC No.	-
Molecular Formula	-

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Dongguan Changlian New Materials Technology Co., Ltd
	Songsha Road ,Xiaokeng Village Industry Park, Liaobu Town, Dongguan City,Guangdong Province
Post code	523419
Telephone number	0769-83215622
Fax number	0769-83215608
E-mail address	1695982947@qq.com

Emergency phone number

Emergency phone number 0769-83215622

2 Hazards identification

Hazard classification according to GHS

Aspiration Hazard	Category 2
Skin Corrosion/Irritation	Category 3
Sensitization – Skin	Category 1
Serious Eye Damage/Irritation	Category 2B
Sensitization – Respiratory	Category 1
Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard	Category 3

Label elements

Hazard pictograms	
Signal word	Warning

Hazard statements

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H305	May be harmful if swallowed and enters airways
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H402	Harmful to aquatic life

Precautionary statements

Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.

Response

P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISONCENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405 Store locked up.

Disposal

DE01	Dispose	of	contents/container	in	accordance	with	local/regional/national/
P 501	internatio	ona	l regulations.				

Hazard description

Physical and chemical hazards

No information available

Health hazards

	Inhalation of vapours may cause allergy or asthma symptoms or breathing difficulties if inhaled. May be harmful if swallowed and enters airways during the course of normal handling.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
	The product may cause an allergic skin reaction following direct contact with the skin. The product can cause mild skin irritation following direct contact with the skin.
Eye	This product may cause mild eye irritation.

Environmental hazards

This product is harmful to aquatic life. Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Component	Cas No.	EC No.	Concentration (weight percent, %)
AK 605-23	25035-69-2	-	10~15
polyurethane polymer	9009-54-5	-	22~26
Rutile (TiO2)	1317-80-2	257-372-4	18~22
Propane-1,2-diol	57-55-6	200-338-0	4~8
Polyacrylate thickener	25035-69-2	-	0.5~1.5
Water	7732-18-5	231-791-2	То 100

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

1 Treat symptomatically.

2 Symptoms may be delayed.

5 Firefighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

1	Containers may explode when heated.
2	May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.		
2	2 Fight fire from a safe distance, with adequate cover.		
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.		

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental precautions

- **1** Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- **1** Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for handling

1	Handling is performed in a well ventilated place.	
2	Wear suitable protective equipment.	
3	Avoid contact with skin and eyes.	
4	Keep away from heat/sparks/open flames/ hot surfaces.	

Precautions for storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.

3 Keep away from heat/sparks/open flames/ hot surfaces.

4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

Commonant	Country/Decien	Limit value - Eight hours		Limit value - Short term	
Component	Component Country/Region		mg/m³	ppm	mg/m³
	United Kingdom	-	10	-	-
	United Kingdom	150	474	-	-
	New Zealand	150	474	-	-
	Latvia	-	7	-	-
Propane-1,2-diol	Ireland	-	10	-	-
57-55-6	Ireland	150	470	-	-
	Canada - Ontario	-	10	-	-
	Canada - Ontario	50	155	-	-
	Australia	-	10	-	-
	Australia	150	474	-	-

Biological limit values

Biological limit values No information available

Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the asse of exposure to chemical and biological agents.	ssment
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2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement



Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).	
Hand protection	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.	
Respiratory protection	LIT AVRACUES LIMITE AND AVCADED OF IT IFFITATION OF ATHAT SUMPTOME AND	

	type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9 Physical and chemical properties

Physical and chemical properties

Thysical and chemical properties		
Appearance	White paste	
Odor	Slight odor	
Odor threshold	No information available	
рН	> 7 (Basic)	
Melting point/freezing point(℃)	No information available	
Initial boiling point and boiling range(°C)	>35	
Flash point(Closed cup,℃)	The flash point above 93 °C	
Evaporation rate	No information available	
Flammability	Not flammable	
Upper/lower explosive limits[%(v/v)]	Upper limit : Not combustible ; Lower limit : Not combustible	
Vapor pressure	No information available	
Relative vapour density(Air = 1)	No information available	
Relative density(Water=1)	No information available	
Solubility(mg/L)	Slightly soluble in water	
n-octanol/water partition coefficient	No information available	
Auto-ignition temperature(°C)	Not combustible	
Decomposition temperature(°C)	No information available	
Kinematic viscosity	No information available	
Particle characteristics	Not applicable	

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	Reacts with active metals and poses an explosive potential or fire. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous	J 7 7
decomposition products	products should not be produced.

11 Toxicological information

Acute toxicity

Component	Cas No.	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Propane-1,2-diol	57-55-6	20000mg (kg (Bat)	20200mg/kg/Babbit)	No information
F10pane-1,2-0101	0-22-75	20000mg/kg(Rat)	20800mg/kg(Rabbit)	available

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	25035-69-2	AK 605-23	Not Listed	Not Listed
2	9009-54-5	polyurethane polymer	Category 3	Not Listed
3	1317-80-2	Rutile (TiO2)	Not Listed	Not Listed
4	57-55-6	Propane-1,2-diol	Not Listed	Not Listed
5	25035-69-2	Polyacrylate thickener	Not Listed	Not Listed
6	7732-18-5	Water	Not Listed	Not Listed

Others

GS-711-1		
Skin corrosion/irritation	osion/irritation Causes mild skin irritation	
Serious eye damage/irritation	Causes eye irritation	
Skin sensitization	May cause an allergic skin reaction	
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled(Category 1)	
Reproductive toxicity	No information available	
STOT-single exposure	No information available	
STOT-repeated exposure	epeated exposure No information available	
Aspiration hazard	iration hazard May be harmful if swallowed and enters airways	
Germ cell mutagenicity	No information available	
Reproductive toxicity(additional)	No information available	

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Propane-1,2-diol	57-55-6	LC ₅₀ : 39800mg/L	EC ₅₀ : >1000mg/L	ErC ₅₀ : >1000mg/L
	0-55-75	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)

Chronic aquatic toxicity

Component Cas No.	Fish	Crustaceans	Algae
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Propane-1,2-diol		NOEC $\cdot > 100 \text{mg/l}$ (Eich)	NOEC :	NOEC :
	57-55-0	NOEC : >100mg/L(Fish)	1000mg/L(Crustaceans)	1000mg/L(Algae)

Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Rutile (TiO2)	1317-80-2	High	High
Propane-1,2-diol	57-55-6	Low	Low
Water	7732-18-5	Low	Low

Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
Rutile (TiO2)	1317-80-2	Low	BCF=10
Propane-1,2-diol	57-55-6	Low	BCF=1
Water	7732-18-5	Low	LogKOW=-1.38

Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Rutile (TiO2)	1317-80-2	Low	23.74
Propane-1,2-diol	57-55-6	High	1
Water	7732-18-5	Low	14.3

Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
AK 605-23	25035-69-2	not PBT/vPvB
polyurethane polymer	9009-54-5	not PBT/vPvB
Rutile (TiO2)	1317-80-2	not PBT/vPvB
Paraffin waxes and Hydrocarbon waxes	8002-74-2	not PBT/vPvB
Propane-1,2-diol	57-55-6	not PBT/vPvB
Polyacrylate thickener	25035-69-2	not PBT/vPvB
Water	7732-18-5	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1and 13.2.

14 Transport information

Label and Mark

Transporting Label	Not applicable
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IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

ICAO/IATA-DG

ICAO/IATA-DG NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
AK 605-23	×	√	√	√	√	√	√	√	√
polyurethane polymer	×	×	×	×	×	×	×	×	×
Rutile (TiO2)	√	√	√	√	√	√	√	√	√
Propane-1,2-diol	√	√	√	√	√	√	√	√	√
Polyacrylate thickener	×	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	×

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

- [DSL] Canadian Domestic Substances List
- [IECSC] China Inventory of Existing Chemical Substances
- [NZIOC] New Zealand Inventory of Chemicals
- [PICCS] Philippines Inventory of Chemicals and Chemical Substances
- [KECI] Existing and Evaluated Chemical Substances
- [AICS] Australia Inventory of Chemical Substances
- [ENCS] Existing And New Chemical Substances

Note

- " $\sqrt{}$ " Indicates that the substance included in the regulations
- "×" That no data or included in the regulations

16 Others

Information on revision

Creation Date	2018/04/01
Revision Date	2018/04/01
Reason for revision	-

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: <u>http://www.ilo.org/dyn/icsc/showcard.home</u>. [2]IARC , website: <u>http://www.iarc.fr/</u>.

[3]OECD: The Global Portal to Information on Chemical Substances, website:

<u>http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en</u>. [4]CAMEO Chemicals, website: <u>http://cameochemicals.noaa.gov/search/simple</u>. [5]NLM:ChemIDplus, website: <u>http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp</u>. [6]EPA: Integrated Risk Information System, website: <u>http://cfpub.epa.gov/iris/</u>. [7]U.S. Department of Transportation:ERG, website: <u>http://www.phmsa.dot.gov/hazmat/library/erg</u>. [8]Germany GESTIS-database on hazard substance, website: <u>http://gestis-en.itrust.de/</u>.

Abbreviations and acronyms

CAS – Chemical Abstracts Service	CMR - Carcinogens, mutagens or substances toxic to reproduction
PC-STEL- Short term exposure limit	PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment	PNEC – Predicted No Effect Concentration
LC ₅₀ - Lethal Concentration 50%	LD ₅₀ - Lethal Dose 50%
NOEC -No Observed Effect Concentration	EC ₅₀ - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative
IMDG-International Maritime Dangerous Goods	ICAO/IATA-International Civil Aviation Organization/International Air
	Transportation Association
UN-The United Nations	ACGIH-American Conference of Governmental Industrial Hygienists
NFPA-National Fire Protection Association	OECD-Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.