SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH) &
COMMISSION REGULATION (EU) 2015/830

Version 1 **Issue Date** 22-Jan-2019
Product Name Hotmelt Glue Stick **Revision date** 22-Jan-2019

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

1.1. Product identifier

Product Name	Hotmelt Glue Stick
REACH registration number	No information available

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

Recommended Use	Used for viscose cloth, paper products, crafts, ceramic, wood products, and so on
Uses advised against	No information available

1.3. Details of the supplier of the safety data sheet

Supplier	Hangzhou Guke Plastic Co., Ltd
Address	No. 28, Natural Village, Zixi Dock, Yangcunqiao Village, Yangcunqiao Town, Jiande City, Zhejiang, China
Postal Code	311603
Phone	+86-571-64193352
FAX	+86-571-64193032
E-mail	hzgksj@hzgksj.com

Importer
Address
Postal Code
Phone
FAX
E-mail

1.4. Emergency telephone number

+86-571-64193352

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label elements

Symbols/Pictograms	None
Signal word	None
Hazard Statements	Not applicable
Precautionary Statements	Not applicable
EU Specific Hazard Statements	None

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Article

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3a,4,7,7a-tetrahydro-4,7-metha	201-052-9	77-73-6	30 - 40	Flam. Liq. 2 (H225)

noindene				Acute Tox. 4 (H302) Acute Tox. 2 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Chronic 2 (H411)
Vinyl acetate	203-545-4	108-05-4	30 - 35	Flam. Liq. 2 (H225) Acute Tox. 4 (H332) Carc. 2 (H351) STOT SE 3 (H335) Aquatic Chronic 3 (H412)
Ethylene	200-815-3	74-85-1	30 - 35	Press. Gas (H280) Flam. Gas 1 (H220) STOT SE 3 (H336)

Note: 3a,4,7,7a-tetrahydro-4,7-methanoindene, Vinyl acetate, Ethylene are monomers of their polymers. The product is an article and do not contain any monomer.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Skin Contact

Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

Ingestion

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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

Inhalation: Vapors from heated material may cause irritation of the respiratory system. Symptoms may include cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain.
Skin contact: Thermal burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.
Eye contact: Vapors from heated material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
Ingestion: May cause physical blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

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 — Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Unsuitable extinguishing media — No information available.

5.2. Special hazards arising from the substance or mixture

Immediate health, physical, and environmental hazards: May cause thermal burns.
Thermal decomposition can lead to release of irritating or toxic gases/vapors: carbon oxides.

5.3. Advice for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to SECTION 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up mechanically, sweep and shovel. Reclaim undamaged product. Remove all sources of ignition. Provide ventilation.

6.4. Reference to other sections

See Section 7 for more information
See section 8 for more information
See section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use this material with adequate ventilation. Avoid skin contact with hot material. Keep out of the reach of children.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a cool, well-ventilated place. Keep away from heat and ignition sources.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	5 ppm 27 mg/m^3	STEL 1 ppm STEL 5.4 mg/m^3 TWA: 0.5 ppm TWA: 2.7 mg/m^3	-	TWA: 0.5 ppm TWA: 2.7 mg/m^3	-
Vinyl acetate (CAS #: 108-05-4)	10 ppm 35 mg/m^3 20 ppm STEL 70 mg/m^3 STEL	-	-	TWA: 5 ppm TWA: 18 mg/m^3	TWA: 5 ppm TWA: 17.6 mg/m^3 STEL: 10 ppm STEL: 35.2 mg/m^3

Chemical Name	Latvia	France	Finland	Germany	Italy
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	-	TWA: 5 ppm TWA: 30 mg/m^3	STEL: 1 ppm STEL: 5.5 mg/m^3	TWA: 0.5 ppm TWA: 2.7 mg/m^3 Ceiling / Peak: 0.5 ppm Ceiling / Peak: 2.7 mg/m^3	-

Vinyl acetate (CAS #: 108-05-4)	TWA: 5 ppm TWA: 17.6 mg/m^3 STEL: 10 ppm STEL: 35.2 mg/m^3	TWA: 5 ppm TWA: 17.6 mg/m^3 STEL: 35.2 mg/m^3 STEL: 10 ppm	TWA: 5 ppm TWA: 18 mg/m^3 STEL: 10 ppm STEL: 35 mg/m^3	Skin TWA: 5 ppm TWA: 18 mg/m^3	TWA: 5 ppm TWA: 17.6 mg/m^3 STEL: 10 ppm STEL: 35.2 mg/m^3
Ethylene (CAS #: 74-85-1)	TWA: 100 mg/m^3	-	TWA: 200 ppm	Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	TWA: 10 mg/m^3	TWA: 5 ppm	TWA: 5 ppm	STEL: 0.5 ppm STEL: 3 mg/m^3 TWA: 0.5 ppm TWA: 3 mg/m^3	-
Vinyl acetate (CAS #: 108-05-4)	STEL: 30 mg/m^3 TWA: 10 mg/m^3	STEL: 15 ppm TWA: 10 ppm	STEL: 10 ppm STEL: 35.2 mg/m^3 TWA: 5 ppm TWA: 17.6 mg/m^3	STEL: 10 ppm STEL: 35 mg/m^3 TWA: 10 ppm TWA: 35 mg/m^3	STEL: 36 mg/m^3 TWA: 18 mg/m^3
Ethylene (CAS #: 74-85-1)	-	TWA: 200 ppm	TWA: 200 ppm	TWA: 10000 ppm TWA: 11500 mg/m^3	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	TWA: 5 ppm TWA: 30 mg/m^3 STEL: 5 ppm STEL: 30 mg/m^3	STEL: 15 ppm STEL: 81 mg/m^3 TWA: 5 ppm TWA: 27 mg/m^3	TWA: 5 ppm	(vacated) TWA: 5 ppm (vacated) TWA: 30 mg/m^3	TWA: 5 ppm TWA: 30 mg/m^3
Vinyl acetate (CAS #: 108-05-4)	TWA: 5 ppm TWA: 17.6 mg/m^3 STEL: 5 ppm STEL: 17.6 mg/m^3	STEL: 10 ppm STEL: 35.2 mg/m^3 TWA: 5 ppm TWA: 17.6 mg/m^3	STEL: 15 ppm TWA: 10 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m^3 (vacated) STEL: 20 ppm (vacated) STEL: 60 mg/m^3	Ceiling: 4 ppm 15 min Ceiling: 15 mg/m^3 15 min
Ethylene (CAS #: 74-85-1)	TWA: 40 ppm TWA: 275 mg/m^3 STEL: 40 ppm STEL: 275 mg/m^3	-	TWA: 200 ppm	-	-

Derived No Effect Level (DNEL)
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

8.2. Exposure controls

Engineering Controls
The workplace should provide adequate ventilation to ensure site concentration does not exceed the occupational exposure limit.

Personal protective equipment

Eye/face protection	Avoid contact with eyes.
Hand Protection	No special technical protective measures are necessary.
Skin and body protection	No special technical protective measures are necessary.
Respiratory protection	Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Transparent solid
Color	Odorless
Odor	No information available.
Odor Threshold	Not determined

pH	Not determined
Melting point/freezing point	80 - 90 °C
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not applicable
Vapor Pressure	Not determined
Vapor density	Not applicable
Density	Not determined
Relative density	Not determined
Bulk density	Not determined
Specific gravity	Not determined
Water solubility	0.98 - 1.00 g/mL
Partition coefficient (LogPow)	3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6): 2.78 (20 °C) Vinyl acetate (CAS #: 108-05-4): 0.73 (25 °C, pH = 7) Ethylene (CAS #: 74-85-1): 1.13 (25 °C, pH = 7)
Autoignition temperature	Product is not self-igniting
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
No hazardous reactions known.

10.4. Conditions to avoid
Heat, flames and sparks. Incompatible materials.

10.5. Incompatible materials
Strong oxidizing agents, strong acids, strong bases.

10.6. Hazardous decomposition products
Carbon monoxide, irritating or toxic fumes and gases, carbon dioxide, particulate.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	590 mg/kg (Rat)	> 2000 mg/kg (Rat)	1972 mg/m^3 (Rat) 4 h
Vinyl acetate (CAS #: 108-05-4)	3470 mg/kg (Rat)	7440 mg/kg (Rabbit)	4000 ppm (Rat) 4 h
Ethylene (CAS #: 74-85-1)	-	-	> 57000 ppm/4h (Rat, male)

			> 65400 mg/m^3/4h (Rat, male)

Skin corrosion/irritation
Non-irritating to the skin.

Serious eye damage/eye irritation
No eye irritation.

Sensitization
No sensitization responses were observed.

Germ cell mutagenicity
No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Vinyl acetate (CAS #: 108-05-4)	Carc. 2	Group 2B
Ethylene (CAS #: 74-85-1)	-	Group 3

Reproductive toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Aspiration hazard
No information available.

SECTION 12: Ecological information

12.1. Toxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	EC50: 15.7 mg/L/96 h (Anabaena flos-aquae)	LC50: 15.7 mg/L/96 h (Ictalurus punctatus)	-
Vinyl acetate (CAS #: 108-05-4)	EC50: 7.48 mg/L/72 h (Pseudokirchneriella subcapitata)	-	EC50: 12.6 mg/L/48 h (Daphnia magna)
Ethylene (CAS #: 74-85-1)	EC50: 40.5 mg/L/72 h (Pseudokirchneriella subcapitata)	LC50: 126.012 mg/L/96 h (QSAR)	EC50: 62.482 mg/L/48 h (QSAR)

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	2.78 (20 °C)
Vinyl acetate (CAS #: 108-05-4)	0.73 (25 °C, pH = 7)
Ethylene (CAS #: 74-85-1)	1.13 (25 °C, pH = 7)

Chemical Name	Bioconcentration factor (BCF)
3a,4,7,7a-tetrahydro-4,7-methanoindene (CAS #: 77-73-6)	53
Vinyl acetate (CAS #: 108-05-4)	3.16 (QSAR)

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment
PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing group	Not regulated
14.5. Environmental hazards	Non-marine pollutant
14.6. Special precautions for user	No information available
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
European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
3a,4,7,7a-tetrahydro-4,7-methanoindene 77-73-6 (30 - 40)	EINECS	-	-
Vinyl acetate 108-05-4 (30 - 35)	EINECS	-	-
Ethylene 74-85-1 (30 - 35)	EINECS	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Take note of Directive 94/33/EC on the protection of young people at work
Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
3a,4,7,7a-tetrahydro-4,7-methanoindene 77-73-6 (30 - 40)	X	DSL	X	X	X	X	X
Vinyl acetate 108-05-4 (30 - 35)	X	DSL	X	X	X	X	X

Ethylene 74-85-1 (30 - 35)	X	DSL	X	X	X	X	X

"-" Not Listed
"X" Listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date 22-Jan-2019
Revision date 22-Jan-2019
Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: http://echa.europa.eu/
IFA GESTIS: http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng
HSDB: http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

Full text of H-Statements referred to under section 3

H220 - Extremely flammable gas.
H225 - Highly flammable liquid and vapor.
H280 - Contains gas under pressure; may explode if heated.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H330 - Fatal if inhaled.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H411 - Toxic to aquatic life with long lasting effects.
H412 - Harmful to aquatic life with long lasting effects.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

-------- End of Safety Data Sheet --------