

TEST REPORT

NINGBO DELI IMP.&EXP.CO.,LTD.

Technical Report:	(3
Date Received:	Še

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FRANK NINGBO DELI IMP.&EXP.CO.,LTD. NO 301ST, XUXIAKE ROAD, NINGHAI, NINGBO, CHINA

SAMPLE INFORMATION:

Sample Description:	GLUE STICK	Sample Quantity:	N/A
Vendor:	N/A	Style No(s):	N/A
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	N/A	Ref #:	N/A
Appropriate Age Grade:	N/A	Country of Origin:	CHINA
Client Specified Age Grade:	N/A	Assortment No.:	N/A
Tested Age Grade:	N/A	Country of Destination:	N/A
UPC Code:	N/A	Color :	N/A

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION
The submitted sample was evaluated to MSDS(Material Safety Data Sheet) and the data	DATA
provided is for information purpose only.	DATA

Note: With the client's prior consent, MSDS was subcontracted test item.

:

BVCPS (ZHEJIANG) GENERAL CONTACT INFORMATION FOR THIS REPORT

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Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd

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Kimi Zhu LAB SUPERVISOR (HARDLINE AND TOY DIVISION)



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

1.1 Product identifier
 Trade name:

Glue Stick

· Registration number:

No available data.

· UFI number:

No available data.

· Other means of identification:

No available data.

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against on
- · Application of the substance/ mixture:

Consumer uses, stick.

· Uses advised against:

No available data.

• *Reason why uses advised against:* No available data.

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Ningbo Deli Imp. & Exp.Co., Ltd.

NO 301st, XUXIAKE ROAD, NINGHAI, NINGBO, CHINA.

Post code: 315600 Tel: +086-18758480295 Email: ftd@nbdeli.com National contact: Frank • Only Representative/other EU contact point: No information available. • Further information obtainable from:

Ningbo Deli Imp. & Exp.Co., Ltd.

· 1.4 Emergency telephone number

Tel: +0574-5995 9165

(Only available during the following office hours 9:00-17:00 (Monday-Friday), Beijing time, for Chinese service only)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture			
 2.1.1 Classification according to regulati 			
The product is not classified according to CL	P Regulation.		
Regulation (EC) No 1272/2008 [CLP]	Classification procedure		
Not applicable	Not applicable		
· 2.2 Label elements			
 Labeling according to Regulation (EC) N 	o 1272/2008:		
The product is not labelled according to CLP	Regulation.		
Hazard pictograms:			
Not applicable			
· Signal word:			
Not applicable			
 Hazard-determining components of label 	lling:		
Not applicable			
 Hazard statements: 			
Not applicable			
 Precautionary statement: 			
Not applicable			
 Supplemental label elements: 			
Not applicable			



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· 2.3 Other hazards

None of the ingredients (\geq 0.1%) meets the criteria for PBT/vPvB in accordance with Annex XIII. None of the ingredients (\geq 0.1%) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

· 3.1 Substance

Not applicable

· 3.2 Mixtures

· Description of the mixture:

Glue Stick.

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Water	7732-18-5	-	231-791-2	62	None	-
Polyvinylpyrrolidone	9003-39-8	-	-	22	None	-
Glycerol	56-81-5	-	200-289-5	5	None	-
Propylene glycol	57-55-6	-	200-338-0	5	None	-
Sodium stearate	822-16-2	-	212-490-5	5	None	-
2-phenoxyethanol	122-99-6	603-098-00-9	204-589-7	0.5	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE (oral)=1394 mg/kg
Chlorphenesin	104-29-0	-	203-192-6	0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-

Additional information:

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures
General advice:
No special immediate medical required.
After inhalation:
Supply with fresh air.
Get medical attention if you feel unwell.
After skin contact:
No special measures required normally.
If there are signs of irritation or other symptoms seek medical attention.
After eye contact:
Rinse cautiously with water.
If eye irritation occurs: Get medical advice/attention.
After swallowing:
Rinse mouth.
Call a POISON CENTER/doctor if you feel unwell.

• **4.2 Most important symptoms and effects, both acute and delayed:** No known symptoms or effects, acute or delayed.

• **4.3 Indication of any immediate medical attention and special treatment needed:** No special immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

· Unsuitable extinguishing media:



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Water with full jet.

• **5.2 Special hazards arising from the substance or mixture:** No special hazards arising from the mixture.

• 5.3 Advice for firefighters **Protective equipment:** Wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures
 6.1.1 For non-emergency personnel Protective equipment: Respiration protection.
 Emergency procedures: Avoid breathing vapor.
 Avoid contact with eyes.
 6.1.2 For emergency responders
 Personal protective equipment: Respiration protection.

· 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent spillage from entering drains, sewer, basement or confined areas. If the spillage contaminates rivers, lakes or drains inform respective authorities.

· 6.3 Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Dispose contaminated material as waste according to section 13.

· 6.4 Reference to other sections:

See section 7 for information on safe handing. See section 8 for information on personal protection equipment. See section 13 for disposal in formation.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling:

No special precaution for safe handling required normally. • Information about fire and explosion protection:

- Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any non-compatibility
 Requirements to be met by storerooms and receptacles:

Store in a cool and well-ventilated place.

· Information about storage in one common storage facility:

No further requirements.

· Further information about storage conditions:

No further requirements.

• Storage class:

12.

• 7.3 Specific end use(s):

See section 1.2.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:



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	1 490 0 01 12
Limit value - Eight hours	Limit value - Short term
10 mg/m³	-
20 mg/m³	-
10 mg/m³	-
200 mg/m³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value
10 mg/m³	-
e glycol	
150 ppm; 470 mg/m³	-
150 ppm; 474 mg/m³	-
oxyethanol	
20ppm; 110 mg/m³	20ppm; 110 mg/m ³
20ppm; 110 mg/m³	50ppm; 290 mg/m ³ 15 minutes average value
20ppm; 110 mg/m³ Inhalable aerosol and vapour	40ppm; 220 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
20ppm; 110 mg/m³ Inhalable aerosol and vapour	40ppm; 220 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
230mg/m ³	-
	10 mg/m³20 mg/m³10 mg/m³200 mg/m³ Inhalable fraction10 mg/m³10 mg/m³10 mg/m³e glycol150 ppm; 470 mg/m³150 ppm; 474 mg/m³xyethanol20ppm; 110 mg/m³20ppm; 110 mg/m³20ppm; 110 mg/m³20ppm; 110 mg/m³20ppm; 110 mg/m³20ppm; 110 mg/m³20ppm; 110 mg/m³ Inhalable aerosol and vapour20ppm; 110 mg/m³ Inhalable aerosol and vapour

· DNELs:

DNEL type		DNEL worker value	DNEL consumer value	
56-81-5 Glycerol				
Local Effects	Long-term, inhalation	56 mg/m³	33 mg/m³	
	Long-term, oral	-	229 mg/kg bw/day	
57-55-6 Propylen	e glycol			
Systemic effects	Long-term, inhalation exposure	168 mg/m³	50 mg/m³	
Local Effects	Long-term, inhalation exposure	10 mg/m ³	10 mg/m ³	
122-99-6 2-phen	oxyethanol			
Systemic Effects	Long-term, inhalation	5.7 mg/m ³	2.41 mg/m ³	
	Long-term, dermal	20.83 mg/kg bw/day	10.42 mg/kg bw/day	
	Long-term, oral	-	9.23 mg/kg bw/day	
	Acute /short term, oral	-	9.23 mg/kg bw/day	
Local Effects	Long-term, inhalation	5.7 mg/m ³	2.41 mg/m ³	

· PNECs:

· PNECS:	
PNEC type	Value
56-81-5 Glycerol	
Freshwater	885 µg/L
Intermittent releases (freshwater)	8.85 mg/L
Marine water	88.5 µg/L
Sewage treatment plant (STP)	1 g/L
Sediment (freshwater)	3.3 mg/kg sediment dw
Sediment (marine water)	330 μg/kg sediment dw
57-55-6 Propylene glycol	
Freshwater	260 mg/L
Intermittent release	183 mg/L
Marine water	26 mg/L
Sewage treatment plant	20 g/L
Sediment, freshwater	572 mg/kg sediment dw
Sediment, marine water	57.2 mg/kg sediment dw
Soil	50 mg/kg soil dw
122-99-6 2-phenoxyethanol	
Freshwater	943 μg/L



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· Additional information:

The lists valid during the marking were used as basis.

· 8.2 Exposure controls

• Based on the composition shown in section 3, the following measures are suggested for occupational safety measure. • Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

· Personal protective equipment

· Eye and face protection:

Not required under normal conditions of use.

For industrial applications, following protection required:



Safety glasses

Protective goggles with side-shields.

· Skin protection

· Hand protection:

Not required under normal conditions of use. For industrial applications, following protection required:



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness> 0.3mm; breakthrough times up to 480 minutes). • Other skin protection:

Not required under normal conditions of use. For industrial applications, following protection required: Gauntlets, boots, bodysuit are recommended.

· Respiration protection:

Not required under normal conditions of use. For industrial applications, following protection required: Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

· Thermal hazards:

Not required under normal conditions of use. For industrial applications, following protection required: The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

· Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties		
· 9.1 Information on basic physical and chemical propert	ies	
· Physical state	Solid	
· Color	White	
· Odor & Odor threshold	Weak odor	
 Melting point/freezing point (or softening point/range) 	Not determined	



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	Fage / 01 12
· Boiling point or initial boiling point and boiling range	100°C (Water)
· Flammability	Not flammable solid
· Lower and upper explosion limit	Not applicable
· Flash point	191°C (Glycerol)
· Auto-ignition temperature	400°C (Glycerol)
· Decomposition temperature	Not determined
· pH	4-8 (50g/l, 20°C)
· Kinematic viscosity (mm2/s)	Not determined
· Solubility	Soluble in water
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapor pressure	Not determined
· Density and/or relative density	Not determined
· Relative vapor density	Not determined
· Particle characteristics	Not determined
· 9.2 Other information	
• 9.2.1 Information with regard to physical hazard classe	PS:
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable	Not applicable
gases in contact with water	
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· 9.2.2 Other safety characteristics	
· Mechanical sensitivity	Not applicable
 Self-accelerating polymerisation temperature 	Not applicable
 Formation of explosible dust/air mixtures 	Not applicable
· Acid/alkaline reserve	Not applicable
· Evaporation rate	Not determined
· Miscibility	Not determined
Conductivity	Not applicable
· Corrosiveness	Not applicable
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable
· Other physical and chemical parameters	Not determined

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:



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Under storage at normal ambient temperatures, the product is stable.

· 10.3 Possibility of hazardous reactions:

No known hazardous reaction.

• **10.4 Conditions to avoid:** High temperature.

· 10.5 Incompatible materials:

Strong oxidizing agent.

• **10.6 Hazardous decomposition products:** Does not decompose when used for intended uses.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

Based on available data, the classification criteria are not met	Based on available data,	the classification	criteria are no	t met
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Based on available data, the classification chiena are not met.					
LD50/LC50 values relevant for classification:					
9003-39-8 Polyvinylpyrrolidone					
Rat	LD50-oral	>100000mg/kg			
Mouse	LD50-oral	>40000mg/kg			
56-81-5 Glycerol					
Rat	LD50-oral	12600mg/kg			
Mouse	LD50-oral	4090mg/kg			
Debbit	LD50-oral	27000mg/kg			
Rabbit	LD50-skin	>10000mg/kg			
57-55-6 Propylene glycol					
Mouse	LD50-oral	22000mg/kg			
Rat	LD50-oral	20000mg/kg			
Rabbit	LD50-oral	18500mg/kg			
	LD50-skin	20800mg/kg			
122-99-6 2	-phenoxyethanol				
Mouse	LD50-oral	933mg/kg			
Rabbit	LD50-skin	5ml/kg			
Rat	LD50-oral	1260mg/kg			
	LC50-skin	14422mg/kg			
Remark: Al	I the above data are i	from literature.			

· Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

· Serious eyes damage/ irritation:

Based on available data, the classification criteria are not met.

· Respiratory or skin sensitization:

Based on available data, the classification criteria are not met.

· Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

· Carcinogenicity:

Based on available data, the classification criteria are not met.

· Reproductive toxicity:

Based on available data, the classification criteria are not met.

· STOT-single exposure:

Based on available data, the classification criteria are not met.

· STOT-repeated exposure:



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Based on available data, the classification criteria are not met.

· Aspiration hazard:

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties:

None of the ingredients (≥0.1%) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

11.2.2 Other information:

No known other relevant information on adverse health effects.

· 12.1 Toxicity	<i>.</i> :				
	NOEC values relevant for classif	ication:			
56-81-5 Glycerol					
Short-term to		LC50 (4 days) 54 g/L			
Short-term toxicity to aquatic invertebrates		EC50 (24 h) 10 g/L			
57-55-6 Prop	oylene glycol				
Short-term to	exicity to fish	LC50 (4 days) 40.613 g/L			
Short-term toxicity to aquatic invertebrates		LC50 (48 h) 18.34 g/L			
Long-term to	xicity to aquatic invertebrates	NOEC (7 days) 13.02 - 29 g/L			
Toxicity to aquatic algae and cyanobacteria		EC50 (4 days) 19 - 19.1 g/L			
		NOEC (14 days) 5.3 - 15 g/L			
122-99-6 2-р	henoxyethanol				
Short term to	vicity to fish	LC50 (4 days) 220 - 460 mg/L			
Short-term to		NOEC (4 days) 100 mg/L			
Long–term toxicity to fish		NOEC (34 days) 23 - 105.5 mg/L			
Short-term toxicity to aquatic invertebrates		EC50 (48 h) 500 mg/L			
Long-term toxicity to aquatic invertebrates		NOEC (21 days) 9.43 - 49.2 mg/L			
Toxicity to aquatic algae and cyanobacteria		EC50 (72 h) 443 - 625 mg/L			
		NOEC (72 h) 70 - 500 mg/L			
Toxicity to aquatic plants other than algae		EC50 (16 h) 1.494 g/L			
12.2 Persiste	ence and degradability:				
56-81-5	Glycerol	Readily biodegradable in water			
57-55-6	Propylene glycol	Readily biodegradable in water			
122-99-6	2-phenoxyethanol	Readily Biodegradable in water			
40.0 Die eee					
12.3 BIO-acc	umulative potential:	L_{OC} Pow- 175			

56-81-5 Glycerol Log Pow= -1.75 57-55-6 Propylene glycol Log Pow= -1.07 122-99-6 2-phenoxyethanol Log Pow= 1.107

· 12.4 Mobility in soil:

	12.4 WODINLY I		
	56-81-5	Glycerol	Henrys law constant= 0.001 Pa m³/mol
	122-99-6	2-phenoxyethanol	Henrys law constant=0.002 Pa m³/mol
_ L		= p	

· 12.5 Results of PBT and vPvB assessment:

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

· 12.6 Endocrine disrupting properties:

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

· 12.7 Other adverse effects:

No known other adverse effects.



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· 12.8 Additional ecological information

· General notes:

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

· 13.1 Waste treatment methods

· Recommendation:

Small quantities can be disposed together with household garbage.

Large quantities disposed must be in according to the local regulation.

· 13.2 Un-cleaned packaging

· Recommendation:

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

· ADR/RID (2021 Edition)	This product is not subject to ADR/RID.
· IATA-DGR (63th)	This product is not subject to IATA-DGR.
· IMO/IMDG (40-20)	This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · MAK (German Maximum Workplace Concentration):
- None of the ingredients is listed.
- · Directive 2012/18/EU
- · Named dangerous substances-ANNEX I:
- None of the ingredients is listed.
- Seveso category:
- Not applicable
- · Qualifying quantity (tonnes) for the application of lower-tier requirements:
- Not applicable
- · Qualifying quantity (tonnes) for the application of upper-tier requirements:
- Not applicable
- · National regulations.
- · Water hazard class:
- WGK1 (German Regulation) (self-assessment): Low hazard to waters.
- · Other regulations, limitations and prohibitive regulations
- · SVHC Candidate list of REACH Regulation Annex XIV Authorization:
- None of the ingredients is listed.
- · REACH Regulation Annex XVII Restriction:
- None of the ingredients is listed.
- · REACH Regulation Annex XIV Authorization List:
- None of the ingredients is listed.
- · 15.2 Chemical safety assessment:
- A Chemical Safe Assessment has not been carried out.



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SECTION 16: Other information

• **16.1 Indication of changes:** None.

16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road). IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association. CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

DEC: Lathel dage E0 percent

LD50: Lethal dose, 50 percent LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Acute Tox. 4: Acute toxicity, hazard category 4

Eve Dam. 1: Eve damage/irritation. hazard category 4

Eye Irrit. 2: Eye damage/irritation, hazard category 2

Skin Irrit. 2: Skin corrosion/irritation, hazard category 2

· 16.3 Key literature references and sources for data:

https://echa.europa.eu/ https://chem.nlm.nih.gov/ https://www.osha.gov/ http://www.unece.org/ http://www.imo.org/ https://www.dguv.de/ https://epa.govt.nz/ https://eww.ilo.org/ https://www.ilo.org/

• **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:** See section 2.1 (classification).

· 16.5 Relevant H- and EUH-phrases (number and full text):

H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation

· 16.6 Training advice:

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

· 16.7 Further information:

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

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