



## MATERIAL SAFETY DATA SHEET [MSDS]

**Modern Teaching Aids 122-126 Old  
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MTA Code: JN1204  
MTA Code: JN 1203

### \*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFITION \*\*\*\*

Product Identifier : TRANSPARENT GLUE STICK

Color: transparent

Size: 8 Grams  
10 Grams  
15 Grams  
20 Grams  
25 Grams  
35 Grams  
40 Grams

### \*\*\*\* SECTION 2 - HAZARDS IDENTIFICATION \*\*\*\*

#### EMERGENCY OVERVIEW

There are no emergency overview specially.

(Any damage cause against skin contact and eye contact, and other contacts aren't reported)

#### Potential Health Effects

Eye :

Cause no eye irritation when scrubed to eyes with polluted hands.

Skin : Cause no skin irritation by skin contact.

Ingestion :

See the section 15(ITEM: Acute oral toxicity) Inhestion :

Cause no damage when inhaling it vapor.

\*\*\*\* SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS \*\*\*\*

INGREDIENTS	CAS/CI#	PERCENT	Exposure Limit(mg/m3)
POLYVINYLPIRROLIDONE	88-12-0	22.0	Not conformed
SODIUM STEARATE	882-16-2	8.0	"
WATER	7732-18-5	62.9	"
GLYCERINE	56-81-5	5.0	"
METHYL PARABEN	99-76-3	0.1	"
SODIUM HYDROXIDE	1310-73-2	1.0	"
SILICON	7440-21-3	1.0	"
<b>TOTAL</b>		<b>100.0</b>	

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes :

Flush eyes with plenty of water. Though a little congestion, if you inflict a friction to eyes, take a rest few minutes with shut an eyelid.

Skin :

Cause no any special damage. Wash with water.

Ingestion :

Cause no serious damage by a small quantity. Get medical aid, if you intake a large quantity.

Inhalation :

It is not needed a first aid.

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information :

Extinguishing Media :

In case of fire use water spray, dry chemical, carbon dioxide, or other common extinguish media.(There is few flammability in the original condition of product)

Autoignition Temperature : Not applicable.

Flash Point : Not applicable.

NFPA Rating : No data

Explosion Limits, Lower : Not applicable.

Upper: Not applicable.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information :

Use proper personal protective equipment as indicated section in 8.

Spills/Leaks :

No need a special action.

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

Handling :

No need a special production line or control technology.

Storage :

Store in a cool, dry place.

Individual container of product : cover a cap after used tightly.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls :

Facilities strong or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protection

Eyes Protection : Not need specially.

Skin Protection : If possible, care about touch to skin by content.

Clothing : Not available.

Respiratory Protection : Not available.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State	Solid Stick Type.
Appearance	Transparent
Odor	Feeble (Organic substance vapor)
pH	9.5-10.5
Vapor Density	Not applicable.
Evaporation Rate	Not applicable.
Viscosity	Less than 70 wt - %
Boiling Point	
Freezing/Melting Point	58°C
Decomposition Temperature	
Solubility	soluble in cold and hot water
Specific Gravity/Density	(1.02 - 1.06cm <sup>3</sup> )/(1.02 - 1.06)
Molecular Formula	Amorphousness
Melecular Weight	Not applicable.

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability :

Stable under normal temperatures and pressures.

Condition to Avoid :

Not available.

Incompatibilities with other Materials :

Weak oxidizing agents and water.

Hazardous Decomposition Products :

None

Hazards Polymerization : Available.

Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

LD50/LC50 :

No information available.

Multagenicity :

No information available.

Teratogenicity & Reproductive Effects :

No information available.

Carcinogenicity :

Not listed by ACGIH, IARC, NIOSH, or OSHA. (In case of colored product's must confine below 0.0254 wt-% : 1 pigment ingredient.)

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity : Not evaluated completely.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with internal regulation for environmental protection.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

Not established.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

ITEM	Regulation	Requirement	Result
Skin patch	Certificating rule by Korea Consuming Science Research Center	Almost Negative - Negative	Almost Negative
Heavy metal's content	EN 71, Part 3.		Not detected or Less than 1.0PPM
Free formaldehyde content	KS K 0611. B, Acetone method AATCC - 112		Less than 1.0PPM
Pentachloro Phenol content	IWS R. N. ET - 674(GC)		Not detected
Allergenic Dystuff	Identification of allergenic dyestuff by TLC method, and reconfirmed by High Pressure Liquid Chromatography-Diode array detector (HPLC - Diode array	Negative	All-Not verifiable (Test result : Negative)

	detector-Hewlett packed 1100)		
Arlamines	Reduction with Sodiumdithionic, after extraction incitrate buffer solution. Indentification of carcinogenic arylamines by TLC method, and reconfirmed by gaschoromatography-mass spectrometry (Mass selective detector-Hewlet packed 5972)	Textiles, Leathers, etc : 30mg/kg (Negative)	All-Not detected (Test result : Negative)
Antibacterial	Certificating rule by Korea Consuming Science Research Center * Method : Shake flask method * Used Virus : - Escherichia coli ATCC 25922 - Bacillus megaterium ATCC 10778 ASTM (G-21 and G-22)	Above 90%-Sterilization	Above 99.0%-Sterilization
Eye irritation			Not grown
Acute oral toxicity	OECD's Guidelines for the testing of chemicals. * 401. Acute oral toxicity Estnating acute oral toxicity in Rates. * Test method : ASTM E 1163(11.05)		
Micronucleus assay	OECD's Guidelines for the test of chemicals. * 474. Genetic toxicology :		
Reverse multation assay	Conduct of Micronucleus Test. * Guide for ASTM E1263 (11.05) * Guide for ASTM E1202 (11.05) OECD's Guidelines for the testing of chemicals * 471. Genetic toxicology : Salmonella typhimurium, Reverse mutation assay.		

\*\*\*\* SECTION 16 - ADDITION INFORMATION \*\*\*\*

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

For user's safety informations in treatment, we will keep up making MSDS to be more available base on test of verification by gradual degrees.

Accordingly, if the man who require to us for get new informations, he will be determinate for his safety from any harmful risk.

Please refer to the MSDS effective date (creation and revision) for distinguish between new or not, recorded above SECTION 1.

Anyone who wants to have any information related MSDS, see SECTION 1 and call me up anytime you like please.