

Material Safety Data Sheet

This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. Use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards. This MSDS may not comply with national legislation; shall be used only as a source of information.

1. Identification of the Product/Preparation and the Company

Product Name : Gel press-on nail tip

Producer/Supplier : Glluga, Cheonan Plant

31075

45, 2gongdan 8-gil

Seobuk-gu, Cheonan-si, Chungcheongnam-do

Republic of Korea

Phone number: 82-1566-0554

Telefax : 82-02-6233-4699

Emergency Phone : 82-1566-0554

Issue Date : 26/09/2025

Product Use : Self Nail Art

2. Hazards Identification

Physical Form : Solid.

Odor, Color: Slight Acrylate Odor, Depending on design

Immediate health, physical, and environmental hazards:

The environmental properties of this product present a low environmental hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential and safety hazards

Skin Contact: No health effects are expected. But allergies can occur

Eye Contact: No health effects are expected.

Inhalation: This product may have a characteristic odor; however, no adverse health effects are anticipated.

Ingestion: No health effects are expected.

3. Composition on Ingredients

Name	CAS No.	%
CELLULOSE ACETATE BUTYRATE	9004-35-7	30~35
Polyurethane resin	237746-67-7	30~35
Acrylates copolymer	25133-97-5	10~15
Isobornyl methacrylate	7534-94-3	5~10
Nitro cellulose	9004-70-0	1~5
ACETYL TRIBUTYL CITRATE	77-90-7	0~1

4. First Aid Measures

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated. If signs/symptoms develop, get medical attention.

Inhalation: No need for first aid is anticipated.

Ingestion: No need for first aid is anticipated. If symptoms occur consult a physician and get medical attention.

5. Fire Fighting Measures

Suitable extinguishing media

Use fire extinguishers with extinguishing agents (e.g., dry powder, carbon dioxide, water spray)

Special protective equipment for firefighters

Special fire fighting procedures: wear full protective equipment and a self-contained breathing apparatus

Unusual fire and explosion hazards : no unusual fire or explosion hazards are anticipated.

Hazardous decomposition products

Carbon monoxide, Carbon dioxide

6. Accidental Release

Measures Accidental release measures: No applicable

7. Handling and Storage

Handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions

Storage

Store it in a place that is not exposed to UV. If possible, store in the dry place,

8. Exposure controls/personal protection

Engineering controls

Not applicable

Technical measures/Precautions

Not applicable

Eye/Face Protection

Not applicable

Skin and hand protection

Not applicable

Respiratory Protection

Under normal use conditions, airborne exposure are not expected to be significant enough to require respiratory protection

Prevention of Swallowing

Not applicable

Exposure Guidelines

None Established

9. Physical and chemical Properties

Physical Form	Solid
Odor, Color Slight	Acrylate Odor, Depending on design
Ignition temperature	No data available
Flash point	Not applicable
Flammable Limits – LEL	Not applicable
Flammable Limits – UEL	Not applicable
Boiling Point/Range	Not applicable
Density	Not applicable
Vapor Density	Not applicable
Vapor Pressure	Not applicable
pH-value	Not applicable
Melting/Freezing Temperature	Not applicable
Assessment of Water Solubility	Not applicable
Evaporation rate	Not applicable
Volatile Organic Compounds	Not applicable
Percent volatile	Not applicable
VOC less H ₂ O & Exempt solvents	Not applicable
Viscosity	Not applicable

10. Stability and reactivity

Stability: Stable

Materials and conditions to avoid: UV light, strong acids and strong bases

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition:

Under recommended usage conditions, hazards decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

11. Toxicological Information

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. Ecological Information

Ecotoxicological information	Not applicable
Chemical fate information	Not applicable

13. Disposal considerations

Dispose off in accordance with national and local regulations.

14. Transport Information

The shipper remains responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging.

And this product is not restricted by IATA air transportation regulations.

15. Regulatory Information

Ensure this product in compliance with national requirements and ensure conformity to local regulations.

16. Other Information

None

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

Butyl Acetate	30~35	123-86-4
Acrylates copolymer	20~25	25035-69-2
Acetone	5~10	67-64-1
Nitrocellulose ; Pyroxylin	1~5	9004-70-0
Isopropyl Alcohol	0.1~1.5	67-63-0

SECTION 4 - FIRST AID INFORMATION

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 - FIRE FIGHTING INFORMATION

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions :

6.2. Environmental Precaution : DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

6.3. Step To Be Taken in Case Material is Released or Spilled : Collect spilled material in appropriate

container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area deny entry.

SECTION 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage class (LK) : LK 3 - Flammable liquids

7.3. Specific end use(s)

No additional information available

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS No.	Substance	PEL	REL	TLV	BEI
123-86-4	Butyl acetate	Long-term: 710 mg/m ³ , 150 ppm	Short-term: 950 mg/m ³ , 200 ppm Long-term: 710 mg/m ³ , 150 ppm	Short-term: 150 ppm Long-term: 50 ppm	-
141-78-6	Ethyl acetate	Long-term: 1400 mg/m ³ , 400 ppm	Long-term: 1400 mg/m ³ , 400 ppm	Long-term: 400 ppm	-
67-63-0	Isopropyl alcohol	Long-term: 980 mg/m ³ , 400 ppm	Short-term: 1225 mg/m ³ , 500 ppm Long-term: 980 mg/m ³ , 400 ppm	Short-term: 400 ppm Long-term: 200 ppm	40 mg/L (urine, end of shift, parameter: acetone)
67-64-1	Acetone	8-h TWA PEL: 1,000 ppm (≈2,400 mg/m ³)	TWA: 250 ppm (≈590 mg/m ³)	TWA: 250 ppm STEL: 500 ppm	40mg/L urine (acetone, end of shift)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Colour : Opaque.

Appearance : Viscous liquid.

Odour : Characteristic. Solvents.

Freezing point : Not available

Boiling point : ≈ 77 °C

Flammability : Highly Flammable liquid and vapour

Lower explosion limit : ≈ 1.2 vol %

Upper explosion limit : Not available

Flash point : = -4 °C (Not measured - the value indicated corresponds to the flash point of the substance with the lowest flash point)

SECTION 10 - STABILITY AND REACTIVITY

10.1. Possible Hazardous Reactions/Conditions

Stable under normal temperature and pressure.

At high vapor concentrations, flammable or explosive mixtures with air may form.

10.2. Conditions to Avoid

Heat, flames, sparks, and other ignition sources.

Prolonged exposure to high temperature.

10.3. Materials to Avoid

Strong oxidizing agents.

10.4. Hazardous Decomposition Products

Carbon oxides (CO, CO₂).

Small amounts of irritating gases may be released under high temperature decomposition.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification:

No. CAS	Substance	Route	Value
123-86-4	Butyl acetate	Oral LD ₅₀	13,100 mg/kg(rat)
		Dermal LD ₅₀	>5,000 mg/kg(rabbit)
		Inhalative LC ₅₀ /4 h	>21 mg/l(rat)
141-78-6	Ethyl acetate	Oral LD ₅₀	5,620 mg/kg(rabbit)
		Inhalative LC ₅₀ /4 h	1,600 mg/l(rat)
67-63-0	Isopropyl alcohol	Oral LD ₅₀	5,840 mg/kg(rat (bw // OECD 401))
		Dermal LD ₅₀	12,956 mg/kg(rabbit (bw // OECD 402))
		Inhalative LC ₅₀ /4 h	>24.578 mg/l(rat (air // OECD 403))
67-64-1	Acetone	Oral LD ₅₀	5,800 mg/kg(rat)
		Dermal LD ₅₀	>15,800 mg/kg(rabbit)
		Inhalative LC ₅₀ /4 h	≈76 mg/l(rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitisation: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

SECTION 12 - ECOLOGICAL INFORMATION

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

Effects in the environment.

Hazardous to the aquatic environment, short-term(acute)
: Not classified

Hazardous to the aquatic environment, long-term(chronic)
: Not classified

No. CAS	Substance	Test organism / Species	Endpoint	Value	Exposure time / Duration	Reference
123-86-4	Butyl acetate	Fish (Pimephales promelas)	LC50	18 mg/L	—	ECHA
		Crustacea (Daphnia sp.)	EC50	44 mg/L	—	
		Algae (Scenedesmus subspicatus)	EC50	674.7 mg/L	72 h	
		Daphnia magna (chronic)	NOEC	23 mg/L	21 d	
141-78-6	Ethyl acetate	Fish (Pimephales promelas)	LC50	230 mg/L	—	
		Daphnia magna (chronic)	NOEC	2.4 mg/L	21 d	
67-63-0	Isopropyl alcohol	Fish (Pimephales promelas)	LC50	10000 mg/L	—	
		Fish (Pimephales promelas)	LC50	9640 mg/L	—	
67-64-1	Acetone	Fish (Oncorhynchus mykiss)	LC50	5540 mg/L	96 h	
		Crustacea (Daphnia pulex)	LC50	8800 mg/L	48 h	
		Algae (Skeletonema costatum)	EC50	11798 mg/L	5 d	

SECTION 13 - DISPOSAL CONSIDERTIONS

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

Department of Transportation (DOT)

Transport document description : UN1263, PAINT RELATED MATERIAL, 3, II

UN Number (DOT) : UN1263

Proper Shipping Name (DOT) : PAINT RELATED MATERIAL

Class (DOT) : 3 – Flammable liquid (49 CFR 173.120)

Packing Group (DOT) : II

Hazard Label(s) (DOT) : Flammable liquid

Remarks : Limited Quantity (if applicable)



Transportation of Dangerous Goods (TDG)

Transport document description : UN1263, PAINT RELATED MATERIAL, 3, II

UN Number (TDG) : UN1263

Proper Shipping Name (TDG) : PAINT RELATED MATERIAL

Primary Hazard Class (TDG) : 3 – Flammable liquid

Packing Group (TDG) : II

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Transport document description : UN1263, PAINT RELATED MATERIAL, 3, II

UN Number (ADR) : UN1263

Proper Shipping Name (ADR) : PAINT RELATED MATERIAL

Class (ADR) : 3 – Flammable liquid

Packing Group (ADR) : II

Label (ADR) : 3 (Flammable liquid)

Classification Code : F1

Hazard Identification Number (Kemler Code) : 33

Tunnel Restriction Code : (D/E)
Remarks : Limited Quantity (LQ) 5 L

Transport by Sea (IMDG Code)

Transport document description (IMDG) : UN1263, PAINT RELATED MATERIAL, 3, II
UN Number (IMDG) : 1263
Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL
Class (IMDG) : 3 – Flammable liquid
Packing Group (IMDG) : II
Limited Quantity (IMDG) : 1 L
Marine Pollutant : No

Air Transport (IATA / ICAO-TI)

Transport document description (IATA) : UN1263, PAINT RELATED MATERIAL, 3, II
UN Number (IATA) : 1263
Proper Shipping Name (IATA) : PAINT RELATED MATERIAL
Class (IATA) : 3 – Flammable liquid
Packing Group (IATA) : II
Limited Quantity (IATA) : 1 L

U.S. Department of Transportation : No classification assigned.
Canadian Transportation of Dangerous Goods : No classification assigned.
Land(ADR/RID), AIR(IATA/ICAO) and Maritime(IMDG) Transportation : No Classification assigned.

Transport Provision Note (Expert Opinion):

"When shipped in inner packagings of 30 ml or less, this product may be transported as
Excepted Quantities' in accordance with IMDG Code Chapter 3.5 and IATA DGR Section 2.6.
The applicable code for this product (UN1263, PG II) is E2, which permits a maximum inner packaging
quantity of 30 ml."

SECTION 15 - ADDITIONAL REGULATORY INFORMATION

US.OSHA

Nitrocellulose	1133.9975kg 2500lb
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US.CERCLA

Butyl Acetate	2267.995kg 5000lb
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Acetone	2267.995kg 5000lb
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Ethyl Acetate	2267.995kg 5000lb
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EU. CLP Regulation (EC) No 1272/2008

Butyl Acetate	Flam. Liq. 3 STOT SE 3 H226 , H336
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Isopropyl Alcohol	Flam. Liq. 2 STOT SE 3 Eye Irrit. 2 H225 ,H336 ,H319
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Acetone	Flam. Liq. 2 STOT SE 3 Eye Irrit. 2 H225, H336, H319
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Ethyl Acetate	Flam. Liq. 2 STOT SE 3 Eye Irrit. 2 H225, H336, H319
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SECTION 16 -Other information

History

Date of issue January 27, 2026

Authorization

This data sheet completes the technical directions but does not replace them. The information contained is based on our knowledge related to the product concerned at the date mentined. It is given in good faith.
The user's attention is drawn to the potential risks that may be incurred when a product is used for purposes other than those it has been designed for.

In no case will this notice exempt the user from being aware of and applying all the texts regulating its activity. The user will take sole responsibility for the precautions related to the way the product is used.

APPROVED BY

KONAD Co., LTD

Chai Due Tong
PRESIDENT