

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

*Product identifier

Product name: Nail color gel polish

Chemical name: ACRYLATE RESIN COMPOUND

Pure substance/mixture: mixture

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

Raw material used in the production of adhesives, coatings and inks

Details of the supplier of the safety data sheet

Manufacture: Chung Yu industry Cooperation

No.618, Sec. 3, Yen-Ping Rd., Taoyuan County 328, Taiwan (R.O.C.)

Emergency telephone number: 886-3-4641205

2. HAZARDS IDENTIFICATION

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

Skin Sensitization Category 1

Signal word: **Warning**

Hazard pictogram(s):



Hazard statements:

H317: May cause an allergic skin reaction.

Precautionary statements:

P272 - Contaminated work clothing should not be allowed out of the workplace P280: Wear protective gloves/protective clothing/eye protection/face protection. P363: Wash contaminated clothing before reuse

P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs:

Get

medical advice/attention.

Classification according to Directive 67/548/EEC or 1999/45/EC:

Hazard classification: Xi: Irritant

Dangers for man and environment:

R43: May cause sensitization by skin contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS

***Hazardous ingredients:**

Chemical Family : acrylate resin ; solid content (Non-Volatile) :100%	
Acrylate oligomer	60 ~ 70 %
Acrylate monomer	20 ~ 30 %
photoinitiator	5 ~ 10 %
Pigment	5-10%

4. FIRST AID MEASURES

Description of first aid measures

General information: Show this safety data sheet to the doctor in attendance

Inhalation: Move immediately to fresh air, avoid exertion and seek medical attention.

Skin contact: Remove immediately all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available) for at least 15 minutes. If symptoms persist seek medical attention.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. If symptoms persist, seek medical attention.

Protection for first-aiders: Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact: Irritating to skin. May cause sensitization by skin contact.

Indication of immediate medical attention and special treatment needed, if necessary

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), dry chemical or foam.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may

scatter and spread fire.

Special hazards arising from the substance or mixture

Special exposure hazards arising from the product itself, combustion products, resulting gases:

Combustible, slight fire hazard when exposed to heat or flame. On combustion, may emit toxic fumes and vapors.

Precautions for fire-fighters

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

Other information: Cool packaging/intermediate bulk containers (IBC)/containers/tanks with water spray from a safe distance with adequate cover.

Do not discharge the product and contaminated fire extinguishing water into soil/drains/surface waters/groundwater.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contacting with skin, eyes, clothing.

Remove all sources of ignition, heat, flames and sparks. Ensure adequate ventilation.

Environmental precautions

Prevent product from entering soil/drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Clear area of personnel and move upwind. Prevent further leakage or spillage if safe to do so Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation Use only in well ventilated areas, possibly combined with a local extraction. Take precautions against electrostatic discharge.

Compliance with minimum standards of the TRGS 500 (TRGS = Technical Rules for Hazardous Substances –

precautionary measures) required. These rules include general hygiene measures like

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed
- Workers should wash hands and face after usage
- Remove contaminated clothing and protective equipment before entering eating areas.

Prevention of fire and explosion

- Store under air.
- The stabilizer is only effective in the presence of oxygen.
- Keep container in a cool, well-ventilated area.
- Keep away from heat sources and direct sunlight.

Conditions for safe storage, including any incompatibilities

Technical measures / storage conditions:

- Keep container tightly closed in a dry and well-ventilated place
- Protect from frost, heat and sunlight
- Ensure all equipment is electrically grounded before beginning transfer operations
- Keep at temperatures below 40°C

Materials to avoid: Acids, bases, oxidizing agents, reducing agents.

Further information

Storage time: At least 6 months after delivery date.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

Contains no substances with occupational exposure limit values.

Occupational exposure controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Hygiene measures

When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection.

Remove and wash contaminated clothing before re-use.

Wash hands before breaks and immediately after handling the product.

Personal protective equipment:

General information: Use personal protective equipment in good condition.

Protective equipment must be chosen depending on activity and possible exposure. The chemical resistance of the protective equipment should be clarified with whose suppliers.

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:

Wear chemical resistant protection gloves (EN374) made of suitable material = Nitrile rubber (nitrile), thickness > 0.5 mm. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility, etc.) is noticed.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166).

Skin and body protection:

Use a face shield, long sleeved, impervious protective clothing and boots.

Environmental exposure controls

See sections 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Clear	Vapour pressure : < 0.01 kPa (20 °C)
Aggregate phase: Liquid	Vapour density:1.0
Odour: Characteristic	Density:1.05~ 1.17 g/cm ³ (25 °C)
PH-value:6.8~7.0	Solubility in water: Slight
Melting point : N/DA	Solubility in other solvents: Soluble in esters and ketones
Boiling point: > 200 °C	Partition coefficient, n-octanol/water: Not available
Flash point: > 120 °C	Auto-ignitiontemperature:N/AP
Evaporation rate: N/DA	Decomposition temperature: N/DA
Viscosity: 1500~2500 cps (25°C)	Explosive properties: N/DA

Oxidising properties: N/DA	
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Other information**10. STABILITY AND REACTIVITY****Reactivity****Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous polymerization. Inhibitors have been added to stabilize this product. Maintaining air in the storage containers is important to keep inhibitors active.

Conditions to avoid

Direct sunlight, any other sources of heat or radiation, flames and sparks, oxidizing conditions, inert gas blanketing.

Materials to avoid

Acids, bases, oxidizing agents, reducing agents.

Hazardous decomposition products

None when used as directed. Thermal decomposition will lead to the release of carbon monoxide (CO) and carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute health effects****Swallowed:**

Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting.

Eye:

This material can cause eye irritation and damage in some persons.

Skin:

This material can cause inflammation of the skin on contact in some persons. Skin contact is not thought to have

harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.

Inhalation:

If inhaled, this material can irritate the throat and lungs of some persons. Although inhalation is not thought to produce harmful effects (as classified under EC Directives), the material may still produce health damage, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally confined to doses producing mortality rather than those producing morbidity (disease, ill-health).

Chronic health effects to toxicity and irritation

Mutagenic effects: Does not contain any known or suspected ingredients that cause this effect.

Carcinogenicity: Does not contain any known or suspected ingredients that cause this effect.

Reproductive toxicity: Does not contain any known or suspected ingredients that cause this effect.

12. ECOLOGICAL INFORMATION

Toxicity

Fish: No data available.

Crustacean: No data available.

Algae: No data available.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Results of PBT and vPvB assessment No data available.

Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from residues/unused products:

Should not be released into the environment.

Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information:

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORTATION INFORMATION

ADR / RID Not classified as hazardous under transport regulations.

IMDG / IMO Not classified as hazardous under transport regulations.

ICAO / IATA Not classified as hazardous under transport regulations.

AND Not classified as hazardous under transport regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other information

All components of this product are in compliance with the following inventories:

U.S. TSCA

Canada DSL

Japan ENCS

Australia AICS

16. OTHER INFORMATION

Department issuing MSDS: Product safety department Contact: J. Lin (Project Manager)

Full text of hazard statements if mentioned as hazardous ingredients in chapter 3:

H317: May cause an allergic skin reaction.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.