

SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Issued 2019-01-22
Version number 1.0



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

1.1. Product identifier

Trade name Gel Polish

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

Identified uses Nail technology

1.3. Details of the supplier of the safety data sheet

Company Lilly Nails AB
Parkgatan 13
411 24 Göteborg
Sweden
Telephone 031-298829
E-mail order@lillynails.se

1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids (Category 3), H226
Skin Irritant (Category 2), H315
May cause an allergic skin reaction (Category 1A), H317
Irritates eyes (Category 2), H319
Acute toxicity (Category 4 vapours), H332
Suspected damaging fertility (Category 2 Route unknown), H361f

2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazard statements

H226

Flammable liquid and vapour

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H319

Causes serious eye irritation

H332

Harmful if inhaled

H361f

Suspected of damaging fertility

Precautionary statements

P101

If medical advice is needed, have product container or label at hand

P102

Keep out of reach of children

P201

Obtain special instructions before use

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280

Wear protective gloves and eye protection

P308+P313

IF exposed or concerned: Get medical advice/attention

P403+P235

Store in a well-ventilated place. Keep cool

P501

Dispose of contents and container to authorised waste disposal facility

Supplemental hazard information

Contains: DI-HEMA TRIMETHYLHEXYL DICARBAMATE, 2-HYDROXYETHYL METHACRYLATE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE, n-BUTYL ACETATE

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
DI-HEMA TRIMETHYLHEXYL DICARBAMATE		
CAS No: 72869-86-4 EC No: 276-957-5	Skin Irrit 2, Eye Irrit 2, Skin Sens 1A; H315, H319, H317	50 - 75 %
2-HYDROXYETHYL METHACRYLATE		
CAS No: 868-77-9 EC No: 212-782-2 Index No: 607-124-00-X	Skin Irrit 2, Eye Irrit 2, Skin Sens 1; H315, H319, H317	10 - 25 %
DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE		
CAS No: 75980-60-8 EC No: 278-335-8 Index No: 015-203-00-X	Repr 2f; H361f	1 - 5 %
ETHYL ACETATE		
CAS No: 141-78-6 EC No: 205-500-4 Index No: 607-022-00-5 REACH: 01-2119475103-46	Flam Liq 2, Eye Irrit 2, STOT SE 3drow; H225, EUH066, H319, H336	1 - 5 %
n-BUTYL ACETATE		
CAS No: 123-86-4 EC No: 204-658-1 Index No: 607-025-00-1	Flam Liq 3, Acute Tox 2vapour, Skin Irrit 2, Eye Irrit 2, STOT SE 3drow, Aquatic Chronic 3; H226, H330, H315, H319, H336, H412	1 - 5 %
ALUMINIUM POWDER (STABILISED)		
CAS No: 7429-90-5 EC No: 231-072-3 Index No: 013-002-00-1	Flam Sol 1m, Water-react 2; H228, H261	0 - 5 %
1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS		
CAS No: 8004-92-0 EC No: 305-897-5	Acute Tox 4oral; H302	0 - 5 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

If exposed or concerned: Get medical advice/attention.

Upon breathing in

Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical advice.

Upon eye contact

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact

Remove clothes which have been splattered.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

Generally

Suspected of damaging fertility.

Upon breathing in

Harmful if inhaled.

Upon eye contact

Irritation.

Upon skin contact

Irritation.

May cause an allergic skin reaction.

Upon ingestion

Ingestion may cause discomfort or reduced general condition.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

Gases detrimental to health can be spread in case of fire.

Emits flammable vapours which may form an explosive mixture with air.

High temperatures and fire can lead to polymerisation, which may cause the packaging to explode.

In case of fire corrosive and poisonous gases may form, e.g. nitrogen oxides and carbon oxides.

5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.

Cool closed containers that were exposed to fire with water.

In case of fire use a respirator mask.

Wear full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Note the risk of ignition.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Keep unauthorized and unprotected people at a safe distance.

Switch off power at the main switch. Do not use the power switch in the room where the spillage has occurred.

Note, risk for formation of sparks due to static electricity. Do not remove clothing in a room where spillage has occurred.

Use recommended safety equipment, see section 8.

Ensure good ventilation.

Do not inhale vapours and avoid contact with skin, eyes and clothes when cleaning up the spillage.

Evacuate the accident area and call an ambulance, if relevant.

Use masks with fresh air when oxygen content is low or unknown.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

Prevent from entering sewers, basements and pits, or any place where gas accumulation could be dangerous.

Notify rescue services for larger spillage.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Do NOT use tools emitting sparks when cleaning.

Minor spills can be dried up with a damp cloth.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

Ensure good ventilation after sanitation.

6.4. Reference to other sections

See also section 8 and 13.

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.

Open fire, hot items, sparks or other ignition sources must not be present in the environment used for handling this product.

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

The product may be electrostatically charged. Always ground the containers while transferring the contents from one container to another. Do not use tools that may cause sparks.

The product must only be handled by persons with relevant training.

Do not eat, drink or smoke in premises where this product is handled.

Wash your hands after using the product.

Persons with chronic respiratory ailments or propensity for allergies should not work with this product.

Remove clothes which have been splattered.

Wash contaminated clothing before reuse.

Local exhaust ventilation may be necessary.

Keep away from incompatible products.

Use recommended safety equipment, see section 8.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Keep out of reach for children.

Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.

Store in dry and cool area.

Always use sealed and visibly labeled packages.

Store only in the original package.

Store as flammable liquid.

Store in a well-ventilated and locked place.

Do not store close to incompatible materials (see section 10.5).

7.3. Specific end uses

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

ETHYL ACETATE

United Kingdoms (EH40/2005)

Time-weighted-average exposure limit (TWA) 200 ppm / 734 mg/m³

Short term exposure limit (STEL) 400 ppm / 1468 mg/m³

n-BUTYL ACETATE

United Kingdoms (EH40/2005)

Time-weighted-average exposure limit (TWA) 150 ppm / 724 mg/m³

Short term exposure limit (STEL) 200 ppm / 966 mg/m³

TITANIUM DIOXIDE

United Kingdoms (EH40/2005)

Time-weighted-average exposure limit (TWA) 4 mg/m³ (Resirable dust) / 10 mg/m³ (Total inhalable)

ALUMINIUM POWDER (STABILISED)

United Kingdoms (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 mg/m³ (Inhalable dust) / 4 mg/m³ (Resirable dust)

DNEL

ETHYL ACETATE

	Type of exposure	Route of exposure	Value
Worker	Acute	Inhalation	1468 mg/m ³
	Local		
Consumer	Chronic	Inhalation	367 mg/m ³
	Systemic		
Worker	Chronic Systemic	Dermal	63 mg/kg
Worker	Acute Systemic	Inhalation	1468 mg/m ³
Worker	Chronic Local	Inhalation	734 mg/m ³
Worker	Chronic Systemic	Inhalation	743 mg/m ³
Consumer	Acute	Inhalation	734 mg/m ³
	Local		
Consumer	Acute	Inhalation	734 mg/m ³
	Systemic		
Consumer	Chronic	Inhalation	367 mg/m ³
	Local		
Consumer	Chronic Systemic	Oral	4.5 mg/kg
Consumer	Chronic Systemic	Dermal	37 mg/kg

PNEC

ETHYL ACETATE

Environmental protection target	PNEC value
Fresh water	0.26 mg/L
Freshwater sediments	1.25 mg/kg
Marine water	0.026 mg/L
Marine sediments	0.125 mg/kg
Microorganisms in sewage treatment	650 mg/L
Soil (agricultural)	0.16 mg/kg

8.2. Exposure controls

To prevent occupational risks the health hazards for this product or any of the ingredients should be taken into account (see sections 2, 3 and 11), according to EU Directive 89/391 and 98/24 and national jurisdiction for occupational risks.

Wash hands thoroughly after handling and before food intake or smoking.

8.2.1. Appropriate engineering controls

- Handle in premises with good ventilation.
- Use local exhaust ventilation.
- Eye-rinsing facilities shall be available at the workplace.

Eye/face protection

Use protective glasses with tight seals according to standard EN166.

Skin protection

- Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.
- Use suitable protective clothing.

Glove material	Glove thickness	Breakthrough time
Nitrile rubber	Not indicated	≥ 480 min

Respiratory protection

- Use proper protective breathing equipment in case of insufficient ventilation.
- Gas filter AX is recommended.

8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|---|--------------------------------|
| a) Appearance | Form: liquid. Colour: varying. |
| b) Odour | characteristic |
| c) Odour threshold | Not indicated |
| d) pH | Not indicated |
| e) Melting point/freezing point | Not indicated |
| f) Initial boiling point and boiling range | Not indicated |
| g) Flash point | 49 °C closed cup |
| h) Evaporation rate | Not indicated |
| i) Flammability (solid, gas) | Not applicable |
| j) Upper/lower flammability or explosive limits | Not indicated |
| k) Vapour pressure | Not indicated |
| l) Vapour density | Not indicated |
| m) Relative density | 1.1 - 1.14 |
| n) Solubility | Solubility in water: Insoluble |
| o) Partition coefficient: n-octanol/water | Not applicable |
| p) Auto-ignition temperature | Not indicated |
| q) Decomposition temperature | Not indicated |
| r) Viscosity | 1500 - 6000 mPa·s |
| s) Explosive properties | Not applicable |
| t) Oxidising properties | Not applicable |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

- Vapour can create explosive mixtures with air.
- Risk of exothermic polymerisation upon contact with incompatible materials.

10.2. Chemical stability

Risk of exothermic polymerisation.

10.3. Possibility of hazardous reactions

- May emit volatile, flammable vapours. Avoid handling close to heat or ignition sources.
- May polymerise.

Danger of bursting of closed systems to vigorous exothermic polymerization. Avoid uncontrolled polymerization.

10.4. Conditions to avoid

- Avoid heat, sparks and open flames.
- Protect from direct sunlight.
- Avoid heating.

10.5. Incompatible materials

Avoid contact with water, acids, bases, transition metals (and salts of transition metals), reducing agents, organic materials and other contaminants.

Avoid contact with strong oxidizing agents.

Avoid contacts with amines.

Avoid contact with alcohols.

10.6. Hazardous decomposition products

Irritating and toxic gases form at extremely high temperatures.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Polymerization fumes may cause eye and airway irritation.

Acute toxicity

The product is a health hazard.

Harmful when inhaled.

2-HYDROXYETHYL METHACRYLATE

LD50 rabbit 24h: > 3000 mg/kg Dermally

LD50 rat 24h: 5050 mg/kg Orally

ETHYL ACETATE

LD50 rabbit 24h: > 18000 mg/kg Dermally

LD50 rat 24h: > 18 g/kg Dermally

LC50 rat 4h: 4000 ppm Inhalation

LC50 rat 1h: 200 mg/L Inhalation

LC50 rat 8h: 5.86 mg/L Inhalation

LD50 rat 24h: 5620 mg/kg Orally

n-BUTYL ACETATE

LC50 rat 4h: 0.74 mg/L Inhalation

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No mutagenic effects have been reported for the substance in this mixture.

Carcinogenicity

No carcinogenic effects have been reported for the substances in this product.

Reproductive toxicity

Suspected of damaging fertility.

STOT-single exposure

The criteria for classification cannot be considered fulfilled based on available data.

STOT-repeated exposure

The criteria for classification cannot be considered fulfilled based on available data.

Aspiration hazard

The product is not classified as being toxic for aspiration.

SECTION 12: Ecological information

12.1. Toxicity

The product is not to be labelled as an environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.

Prevent release on land, in water and drains.

ETHYL ACETATE

LC50 Freshwater water flea (*Daphnia magna*) 48h: 717 mg/L

LC50 Fish 96h: 230 mg/L

IC50 Algae 72h: 3300 mg/L

12.2. Persistence and degradability

There is no information regarding persistence or degradability.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

No known effects or hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste handling of the product

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

The product is flammable and its waste shall therefore, if it is not treated in order to eliminate this risk, be considered to be dangerous.

Avoid discharge into sewers.

Observe local regulations.

See also national waste regulations.

May not be disposed of with household waste.

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number

1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, n-BUTYL ACETATE)

14.3. Transport hazard class(es)

Class

3: Flammable liquids

Classification code (ADR/RID)

F1: Flammable liquids having a flash-point of or below 60 °C

Subsidiary risk (IMDG)

No subsidiary risk according to IMDG

Labels



14.4. Packing group

Packing group III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Tunnel restrictions

Tunnel category: D/E

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

14.8 Other transport information

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres

Stowage category A (IMDG)

Emergency Schedule (EmS) for FIRE (IMDG) F-E

Emergency Schedule (EmS) for SPILLAGE (IMDG) S-E

SECTION 15: Regulatory information

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

Not indicated.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

This is the first version

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Skin Irrit 2	Skin Irritant (Category 2)
Eye Irrit 2	Irritates eyes (Category 2)
Skin Sens 1A	May cause an allergic skin reaction (Category 1A)
Skin Sens 1	May cause an allergic skin reaction (Category 1)
Repr 2f	Suspected damaging fertility (Category 2 Route unknown)
Flam Liq 2	Flammable liquids (Category 2)
STOT SE 3drow	Specific target organ toxicity - Single exposure (Category 3, Narcosis effect)
Flam Liq 3	Flammable liquids (Category 3)
Acute Tox 2vapour	Acute toxicity (Category 2 vapour)
Aquatic Chronic 3	Harmful to aquatic life with long-lasting effects (Category Chronic 3)
Flam Sol 1m	Flammable metal (Category 1m)
Water-react 2	Substance or mixture which in contact with water emit flammable gases (Category 2)
Acute Tox 4oral	Acute toxicity (Category 4 oral)

Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

Tunnel restriction code: D/E; Transport by bulk or via tank: Passage forbidden through tunnels of category D and E, Other transportation means: Passage forbidden through tunnels of category E

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2019-01-22.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 2015/830 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- EH40/2005 EH40/2005 Workplace exposure limits
- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H361f Suspected of damaging fertility
- H225 Highly flammable liquid and vapour
- EUH066 Repeated exposure may cause skin dryness or cracking
- H336 May cause drowsiness or dizziness
- H226 Flammable liquid and vapour
- H330 Fatal if inhaled
- H412 Harmful to aquatic life with long lasting effects
- H228 Flammable solid
- H261 In contact with water releases flammable gases
- H302 Harmful if swallowed

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product can cause harm if used improperly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se