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)
Revision date 2019-10-23
Replaces issued SDS 2018-11-06
Version number 2.0

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

1.1. Product identifier

Trade name	INVICTA Soft Pink

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

Skin Irritant (Category 2),H315
May cause an allergic skin reaction (Category 1),H317
Irreversible Eye Effects (Category 1),H318
Harmful to aquatic life with long-lasting effects (Category Chronic 3),H412

2.2. Label elements

Hazard pictogram

Signal word	Danger
Hazard statements	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P261	Avoid breathing gases or vapours
P280	Wear protective gloves, protective clothing and eye or face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P501	Dispose of contents and container to authorised waste disposal facility

Supplemental hazard information

Contains: ALIPHATIC URETHANE ACRYLATE, 2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAERYTHRITOL, 2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER, POLYMER WITH 1,6-DIISOCYANATOHEXANE

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
ALIPHATIC URETHANE ACRYLATE		
	Skin Irrit 2, Eye Irrit 2, Skin Sens 1, Aquatic Chronic 3; H315, H319, H317, H412	50 - 75 %
2-PROPENOIC ACID, REACTION PRODUCTS WITH PENTAERYTHRITOL		
CAS No: 1245638-61-2 EC No: 629-850-6	Acute Tox 4*oral*, Skin Irrit 2, Eye Dam 1, Skin Sens 1, Aquatic Chronic 2; H302, H315, H318, H317, H411	≥1 - <5 %
2-HYDROXY-2-METHYLPROPIOPHENONE		
CAS No: 7473-98-5 EC No: 231-272-0	Acute Tox 4*oral*, Aquatic Chronic 2; H302, H411	0.1 - 1 %
POLY(ETHYLENE GLYCOL) DIMETHACRYLATE		
CAS No: 25852-47-5 EC No: 607-819-8	Skin Irrit 2, Eye Irrit 2, STOT SE 3*resp*; H315, H319, H335	0.1 - 1 %
2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER, POLYMER WITH 1,6-DIISOCYANATOHEXANE		
CAS No: 264888-31-5 EC No: 677-640-8	Skin Irrit 2, Eye Irrit 2, Resp Sens 1, Skin Sens 1; H315, H319, H334, H317	≥0.1 - <1 %

Constituent	Classification	Concentration
HYDROQUINONE		
CAS No: 123-31-9 EC No: 204-617-8 Index No: 604-005-00-4	Acute Tox 4*oral*, Eye Dam 1, Skin Sens 1, Muta 2, Carc 2, Aquatic Acute 1*; M = 10*; H302, H318, H317, H341, H351, H400	<0.02 %

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

In case of concern, or if symptoms occur, call a doctor/physician.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Remove contact lenses immediately if possible.
Flush immediately with luke-warm water for 15 - 20 minutes with wide-open eyes. Transport the injured person to a hospital immediately.
Important! Also flush during transport to hospital (eye specialist).

Upon skin contact

Remove contaminated clothing.
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

Upon eye contact

Risk of permanent eye damage.

Upon skin contact

Irritation.
May cause an allergic skin reaction.

Upon ingestion

May cause irritation of mucous membranes, nausea and vomiting.

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

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

5.2. Special hazards arising from the substance or mixture

In case of fire corrosive and poisonous gases may form, e.g. nitrogen oxides and carbon oxides.
Note, risk for discharge of environmentally harmful substances.
Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according to current regulations.
High temperatures and fire can lead to polymerisation, which may cause the packaging to explode.

5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.
Contain and collect extinguishing liquid.
In case of fire use a respirator mask.
Wear full protective clothing.
Cool closed containers that were exposed to fire with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).
Avoid inhalation and exposure to skin and eyes.
Keep unauthorized and unprotected people at a safe distance.
Use recommended safety equipment, see section 8.
Ensure good ventilation.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.
Dam up the spillage to prevent it reaching street sewers or flowing into the ground.
Always contact the fire department when accidental spillage of this product occurs.

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.
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 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.
Avoid spillage, inhalation and contact with eyes and skin.
Do not eat, drink or smoke in premises where this product is handled.
Wash your hands after using the product.
Remove contaminated clothing.
Wash contaminated clothing before reuse.
Local exhaust ventilation may be necessary.
Use recommended safety equipment, see section 8.
Keep away from incompatible products.

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.
This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.
Always use sealed and visibly labeled packages.
Store in dry and cool area.
Store in tightly closed original package.
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
HYDROQUINONE

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 0.5 mg/m^3

2,6-BIS(1,1-DIMETHYLETHYL)-4- METHYLPHENOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 mg/m^3

TITANIUM DIOXIDE

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 4 mg/m^3 (Respirable dust) / 10 mg/m^3 (Total inhalable)

DNEL
HYDROQUINONE

	Type of exposure	**Route of exposure**	**Value**
Consumer	Chronic Systemic	Inhalation	1.74 mg/m^3
Worker	Chronic Systemic	Dermal	128 mg/kg
Worker	Chronic Local	Inhalation	1 mg/m^3
Worker	Chronic Systemic	Inhalation	7 mg/m^3
Consumer	Chronic Local	Inhalation	0.5 mg/m^3
Consumer	Chronic Systemic	Dermal	64 mg/kg

PNEC
HYDROQUINONE

Environmental protection target	PNEC value
Fresh water	0.114 mg/l
Freshwater sediments	0.98 µg/kg
Marine water	0.0114 µg/L
Marine sediments	0.097 µg/kg
Microorganisms in sewage treatment	0.71 mg/l
Soil (agricultural)	0.129 µg/kg
Intermittent	0.00134 mg/l

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.

8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.
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 suitable protective clothing.
Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.
The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.
Filter of type A and/or type P3 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: paste.
b) Odour	Not indicated
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	Not indicated
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	Not indicated
n) Solubility	Not indicated
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
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

Risk of exothermic polymerisation upon contact with incompatible materials.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

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 heat and direct sunlight.

10.5. Incompatible materials

Avoid contact with oxidizers.
Avoid contact with acids.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Polymerization fumes may cause eye and airway irritation.

Acute toxicity

The product is not classified as acutely toxic.

HYDROQUINONE

LD50 rat 24h: > 900 mg/kg Dermally
LD50 rat 24h: 320 mg/kg Orally

Skin corrosion/irritation

May cause skin irrition.

Serious eye damage/irritation

Causes severe eye burns.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

The product has a low content of a compound suspected of being mutagenic.

Carcinogenicity

The product contains low quantities of a suspected carcinogenic substance.

Reproductive toxicity

No toxic effects to reproduction have been reported for the substances in this mixture.

STOT-single exposure

No known hazards for occasional exposure.

STOT-repeated exposure

No known hazards for repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

SECTION 12: Ecological information

12.1. Toxicity

Prevent release on land, in water and drains.
Harmful to aquatic life with long lasting effects.

HYDROQUINONE

LC50 fathead minnow (Pimephales promelas) 96h: 0.044 mg/L
EC50 Freshwater water flea (Daphnia magna) 24h: 0.12 mg/L
IC50 Algae (Pseudokirchneriella subcapitata) 72h: 0.335 mg/l
EL50 Bacteria 0.5h: 0.038 mg/l

12.2. Persistence and degradability

The product degrades in the natural environment.

12.3. Bioaccumulative potential

Neither this product, nor its contents, accumulates in nature.

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

Data lacking.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste handling of the product

Avoid discharge into sewers.
May not be disposed of with household waste.
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 hazardous to the environment and the waste thereof should be considered hazardous material (if this is not treated so that this risk be eliminated).
Observe local regulations.
See also national waste regulations.

Classification according to 2008/98

Recommended LoW-code: 08 04 09 Waste adhesives and sealants containing organic solvents or other dangerous substances

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

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Not applicable

14.8 Other transport information

Not applicable

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

Earlier versions

2018-11-06 Changes in section(s) 3, 5, 6, 7, 8, 11.

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 1	May cause an allergic skin reaction (Category 1)
Aquatic Chronic 3	Harmful to aquatic life with long-lasting effects (Category Chronic 3)
Acute Tox 4*oral*	Acute toxicity (Category 4 oral)
Eye Dam 1	Irreversible Eye Effects (Category 1)
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects (Category Chronic 2)
STOT SE 3*resp*	Specific target organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)
Resp Sens 1	Risk of allergic reaction or asthma if inhaled (Category 1)
Muta 2	Suspected genetic defects (Category 2)
Carc 2	Suspected of causing cancer (Category 2)
Aquatic Acute 1*; M = 10*	Very toxic to aquatic life (Category Acute 1 M=10)

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

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 2019-10-23.
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
2008/98	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
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
H412 Harmful to aquatic life with long lasting effects
H302 Harmful if swallowed
H318 Causes serious eye damage
H411 Toxic to aquatic life with long lasting effects
H335 May cause respiratory irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
H400 Very toxic to aquatic life

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