

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Marking ink 150 P UV LED  
white  
**Revision date :** 23.09.2020  
**Print date :** 23.09.2020

**Version :** 1.0.0

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

### 1.1 Product identifier

Marking ink 150 P UV LED  
white (15050544021040)  
Unique Formula Identifier (UFI): HAMX-JQQW-RYEV-KK31

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

**Relevant identified uses**

Industrial marking ink

### 1.3 Details of the supplier of the safety data sheet

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Stefan Kupietz GmbH & Co. KG  
Chemische Fabrik

**Street :** August-Wilhelm-Kühnholz-Str. 9

**Postal code/city :** 26135 Oldenburg

**Telephone :** +49(0)441/20 69 50

**Telefax :** +49(0)441 /20 69 520

**Information contact :** E-Mail: info@kupietz.de

### 1.4 Emergency telephone number

Poison emergency centre +49-551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.  
STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.  
Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

IBOA ; CAS No. : 5888-33-5

DPGDA ; CAS No. : 57472-68-1

Trimethylolpropan, ethoxyliert, verestert mit Acrylsäure ; CAS No. : 28961-43-5

Glyzerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; CAS No. : 52408-84-1

**Hazard statements**

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H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash affected areas thoroughly after handling.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see information on this label).  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

#### 2.3 Other hazards

None

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous ingredients

IBOA ; REACH Registration No. : 01-2119957862-25-xxxx ; EC No. : 227-561-6; CAS No. : 5888-33-5

Weight fraction : < 30 %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

DPGDA ; REACH Registration No. : 01-2119484629-21-XXXX ; EC No. : 260-754-3; CAS No. : 57472-68-1

Weight fraction : < 15 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317

Trimethylolpropan, ethoxyliert, verestert mit Acrylsäure ; REACH Registration No. : 01-2119489900-30-xxxx ; EC No. : 500-066-5; CAS No. : 28961-43-5

Weight fraction : < 5 %

Classification 1272/2008 [CLP] : Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

Glycerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; REACH Registration No. : 01-2119487948-12 ; EC No. : 500-114-5; CAS No. : 52408-84-1

Weight fraction : < 0,5 %

Classification 1272/2008 [CLP] : Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

##### Additional information

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Immediately remove all contaminated clothing.

##### Following inhalation

Provide fresh air.

##### In case of skin contact

Wash away with soap and water and rinse.

##### After eye contact

Flush with plenty of water (10 - 15 min.). Call a physician.

##### After ingestion

Drink plenty of water.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam , Carbon dioxide (CO2) , Extinguishing powder or Water spray jet .

### 5.2 Special hazards arising from the substance or mixture

None

### 5.3 Advice for firefighters

None

### 5.4 Additional information

Cool endangered containers with water in case of fire.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours.

### 6.2 Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Remove mechanically, take-up residues with absorbing material.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Normal precautions taken when handling chemicals should be observed. Only use in locations with adequate suction ventilation.

#### Protective measures

##### Measures to prevent fire

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Do not leave vessels open, earth storage containers.

#### Hints on joint storage

Store the foodstuffs separately. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

**Storage class :** 10

**Storage class (TRGS 510) :** 10

#### Further information on storage conditions

Store containers tightly closed in a cool well ventilated place.

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## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

Use tightly fitting safety glasses.

##### Skin protection

###### Hand protection

Use protective butyl rubber gloves (0,5 mm). Permeation time of glove material: level  $\geq$  240 min (4h) EN374

##### Respiratory protection

###### Suitable respiratory protection apparatus

Respiratory protection necessary at: aerosol or mist formation. Half-face mask (DIN EN 140) Filtering device (full mask or mouthpiece) with filter: A

#### General information

The usual precautionary measures for the handling of chemicals have to be observed.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid

**Colour :** white

**Odour :** characteristic

#### Safety characteristics

**Physical state :** Liquid

**Freezing point :** No data available

**Initial boiling point and boiling range :** ( 1013 hPa ) > 140 °C

**Decomposition temperature :** > 200 °C

**Flash point :** > 61 °C Brookfield

**Auto-ignition temperature :** No data available

**Lower explosion limit :** No data available

**Upper explosion limit :** No data available

**Vapour pressure :** ( 50 °C ) < 1100 hPa

**Density :** ( 20 °C ) ~ 1 g/cm<sup>3</sup>

**Solvent separation test :** ( 20 °C ) < 3 %

**Water solubility :** ( 20 °C ) No data available

**pH :** ~ 5,1

**log P O/W :** No data available

**Flow time :** ( 20 °C ) ~ 80 s DIN-cup 4 mm

**Odour threshold :** No data available

**Relative vapour density :** ( 20 °C ) No data available

**Vapourisation rate :** No data available

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**Flammable aerosols :** No data available.  
**Oxidising liquids :** No data available.  
**Explosive properties :** No data available.

### 9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

None, if handled according to order.

### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. In connection with inorganic and organic acids, acid chlorides violent reactions can take place and CO<sub>2</sub> released. Formation of hydrogen by acids, lyes, moisture possible.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Parameter :	LD50 ( IBOA ; CAS No. : 5888-33-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	~ 4890 mg/kg
Parameter :	LD50 ( DPGDA ; CAS No. : 57472-68-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	~ 4600 mg/kg
Parameter :	LD50 ( Glycerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; CAS No. : 52408-84-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

##### Acute dermal toxicity

Parameter :	LD50 ( IBOA ; CAS No. : 5888-33-5 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ( DPGDA ; CAS No. : 57472-68-1 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg

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**Parameter :** LD50 ( Glycerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; CAS No. : 52408-84-1 )  
**Exposure route :** Dermal  
**Species :** Rabbit  
**Effective dose :** > 2000 mg/kg

### Acute inhalation toxicity

#### Practical experience/human evidence

Slight narcotic effect. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

### Corrosion

#### Skin corrosion/irritation

**Parameter :** Skin corrosion/irritation ( IBOA ; CAS No. : 5888-33-5 )  
**Species :** Rabbit  
**Effective dose :** ~ 1,8  
**Method :** OECD 404

**Parameter :** Skin corrosion/irritation ( IBOA ; CAS No. : 5888-33-5 )  
**Species :** Rabbit  
**Effective dose :** 500

**Parameter :** Skin corrosion/irritation ( DPGDA ; CAS No. : 57472-68-1 )  
**Species :** Rabbit  
**Effective dose :** 3,4  
**Method :** OECD 404

#### Serious eye damage/eye irritation

**Parameter :** Serious eye damage/eye irritation ( IBOA ; CAS No. : 5888-33-5 )  
**Species :** Rabbit  
**Effective dose :** 100

### Respiratory or skin sensitisation

#### Skin sensitisation

**Parameter :** Skin sensitisation ( IBOA ; CAS No. : 5888-33-5 )  
**Species :** Mouse  
**Result :** Sensitising.  
**Method :** OECD 429

**Parameter :** Skin sensitisation ( DPGDA ; CAS No. : 57472-68-1 )  
**Species :** Guinea pig  
**Result :** May cause sensitization by inhalation and skin contact.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### Carcinogenicity

**Parameter :** Carcinogenicity ( DPGDA ; CAS No. : 57472-68-1 )  
**Exposure route :** Carcinogenicity  
**Result :** Negative.

#### Germ cell mutagenicity

##### In vitro mutagenicity

**Parameter :** In vitro mutagenicity ( DPGDA ; CAS No. : 57472-68-1 )  
**Exposure route :** One generation reproduction toxicity test  
**Result :** Negative.

#### Genotoxicity

**Parameter :** Genotoxicity ( DPGDA ; CAS No. : 57472-68-1 )  
**Exposure route :** Genotoxicity  
**Result :** Negative.

#### Reproductive toxicity

##### Adverse effects on developmental toxicity

**Parameter :** One generation reproduction toxicity test ( DPGDA ; CAS No. : 57472-68-1 )  
**Exposure route :** One generation reproduction toxicity test

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Result : Negative.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( IBOA ; CAS No. : 5888-33-5 )  
Species : Brachydanio rerio (zebra-fish)  
Effective dose : 0,704 mg/l  
Exposure time : 96 h  
Evaluation : Harmless to fish up to the concentration tested.  
Method : OECD 203  
Parameter : LC50 ( Glyzerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; CAS No. : 52408-84-1 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 5,74 mg/l  
Exposure time : 96 h  
Method : OECD 203

##### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( IBOA ; CAS No. : 5888-33-5 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1,1 mg/l  
Exposure time : 48 h  
Evaluation : Harmless to daphnia up to the tested concentration.  
Method : OECD 202  
Parameter : EC50 ( DPGDA ; CAS No. : 57472-68-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 22,3 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( Glyzerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; CAS No. : 52408-84-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 91,4 mg/l  
Exposure time : 48 h  
Method : OECD 202

##### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( IBOA ; CAS No. : 5888-33-5 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 0,092 mg/l  
Exposure time : 72 h  
Method : OECD 211

##### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 ( IBOA ; CAS No. : 5888-33-5 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 1,98 mg/l  
Exposure time : 72 h  
Evaluation : Harmless to algae up to the concentration tested.  
Method : OECD 201  
Parameter : ErC50 ( Glyzerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO ) ; CAS No. : 52408-84-1 )

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Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 12,2 mg/l  
Exposure time : 72 h  
Method : OECD 201

### Chronic (long-term) algae toxicity

Parameter : NOEC ( IBOA ; CAS No. : 5888-33-5 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 0,405 mg/l  
Exposure time : 72 h  
Method : OECD 201

## 12.2 Persistence and degradability

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

### Biodegradation

Parameter : BOD (% of ThOD) ( IBOA ; CAS No. : 5888-33-5 )  
Inoculum : Degree of elimination  
Degradation rate : 72,9 %  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301D

## 12.3 Bioaccumulative potential

Parameter : Partition coefficient n-octanol /water (log P O/W) ( IBOA ; CAS No. : 5888-33-5 )  
Value : 4,52  
Method : OECD 117  
Parameter : Partition coefficient: n-octanol/water ( Glyzerin propoxyliert, Ester mit Acrylsäure ( > 1 < 6.5 mol PO) ; CAS No. : 52408-84-1 )  
Partition coefficient: n-octanol/water  
Partition coefficient n-octanol /water (log P O/W)  
Value : 2,52

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

Very high mobility in soil with a negligible tendency to leave the sediment.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

Do not empty into waters or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

#### Directive 2008/98/EC (Waste Framework Directive)

##### After intended use

##### Waste codes/waste designations according to EWC/AVV

- 080111

##### Additional information

Contaminated packaging should be residue-free emptying. They can then be recycled after appropriate cleaning (Waste code 080112 contains no organic solvents). Contaminated packaging should be disposed of like the product. (Waste code 150110)



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### SECTION 14: Transport information

#### 14.1 UN number

No dangerous good in sense of these transport regulations.

#### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

#### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

#### 14.4 Packing group

No dangerous good in sense of these transport regulations.

#### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

#### 14.6 Special precautions for user

None

### SECTION 15: Regulatory information

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

##### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

##### National regulations

##### Water hazard class (WGK)

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

#### 15.2 Chemical safety assessment

No information available.

### SECTION 16: Other information

#### 16.1 Indication of changes

None

#### 16.2 Abbreviations and acronyms

None

#### 16.3 Key literature references and sources for data

None

#### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

#### 16.5 Relevant H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

#### 16.6 Training advice

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None

## 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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