

Safety Data Sheet

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



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

Version (Revision) : 3.0.0 (2.0.0)

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

1.1 Product identifier

Marking ink 150 P UV LED
black (15050544001040)
Unique Formula Identifier (UFI): NEMX-2QEA-2YEC-8WP3

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 : < 10 %

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 : black

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) \sim 1 g/cm³

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

Water solubility : (20 °C) No data available

pH : \sim 5,1

log P O/W : No data available

Flow time : (20 °C) \sim 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 CO₂ 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

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 15. Restrictions on use · 15. Water hazard class (WGK)

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.

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16.6 Training advice

None

16.7 Additional information

None

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.
