

# Safety Data Sheet

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



**Trade name :** Luminous Stamping Ink 948  
colourless UV bluish white  
**Revision date :** 24.08.2016  
**Print date :** 24.08.2016

**Version (Revision) :** 14.0.0 (13.0.0)

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

### 1.1 Product identifier

Luminous Stamping Ink 948  
colourless UV bluish white (15072000000038)

### 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]**

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

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

**Hazard pictograms**



Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

XYLENE ; CAS No. : 1330-20-7

**Hazard statements**

H225 Highly flammable liquid and vapour.

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H373 May cause damage to organs through prolonged or repeated exposure.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

XYLENE ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : < 30 %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

2-BUTOXYETHYL ACETATE ; EC No. : 203-933-3; CAS No. : 112-07-2

Weight fraction : < 20 %  
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H312 Acute Tox. 4 ; H332

ETHANOL ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction : < 15 %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

ETHYLBENZENE ; EC No. : 202-849-4; CAS No. : 100-41-4

Weight fraction : < 10 %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332

1-METHOXY-2-PROPANOL ; EC No. : 203-539-1; CAS No. : 107-98-2

Weight fraction : < 10 %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

CYCLOHEXANONE ; EC No. : 203-631-1; CAS No. : 108-94-1

Weight fraction : < 10 %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332

2,5-Thiophendiylbis(5-tert-butyl-1,3-benzoxazol) ; EC No. : 230-426-4; CAS No. : 7128-64-5

Weight fraction : < 5 %  
Classification 1272/2008 [CLP] : Aquatic Chronic 4 ; H413

#### 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

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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.

## 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 (CO<sub>2</sub>) , 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.

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## 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 :** 3

**Storage class (TRGS 510) :** 3

### Further information on storage conditions

Store containers tightly closed in a cool well ventilated place.

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 100 ppm / 440 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : H

Version : 06.11.2015

Limit value type (country of origin) : STEL ( EC )

Limit value : 100 ppm / 442 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )

Limit value : 50 ppm / 221 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 20 ppm / 130 mg/m<sup>3</sup>

Peak limitation : 4(II)

Remark : H,Y

Version : 06.11.2015

Limit value type (country of origin) : STEL ( EC )

Limit value : 50 ppm / 333 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )

Limit value : 20 ppm / 133 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 500 ppm / 960 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : Y

Version : 06.11.2015

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## ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 88 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H, Y  
Version : 06.11.2015

Limit value type (country of origin) : STEL ( EC )  
Limit value : 200 ppm / 884 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 442 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

## 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 100 ppm / 370 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 06.11.2015

Limit value type (country of origin) : STEL ( EC )  
Limit value : 150 ppm / 568 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 375 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

## CYCLOHEXANONE ; CAS No. : 108-94-1

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 80 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : H,Y  
Version : 06.11.2015

Limit value type (country of origin) : STEL ( EC )  
Limit value : 20 ppm / 81,6 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )  
Limit value : 10 ppm / 40,8 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

## 2-(2-ETHOXYETHOXY)ETHANOL ; CAS No. : 111-90-0

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 6 ppm / 35 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 06.11.2015

### Biological limit values

#### XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift

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Limit value : 1,5 mg/l  
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift  
Limit value : 2 g/l  
Version : 31.03.2004

2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts  
Limit value : 100 mg/l  
Version : 31.03.2004

ETHYLBENZENE ; CAS No. : 100-41-4  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Ethylbenzene / Whole blood (B) / End of exposure or end of shift  
Limit value : 1 mg/l  
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Mandelic acid + Phenylglyoxyl acid / Urine (U) / End of exposure or end of shift  
Limit value : 800 mg/g Kr  
Version : 31.03.2004

## 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 >= 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 health and safety measures

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

**Colour :** transparent

**Odour :** characteristic

#### Safety relevant basis data

<b>Physical state :</b>			liquid	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	approx.	88 °C	
<b>Flash point :</b>		approx.	20 °C	Brookfield
<b>Vapour pressure :</b>	( 50 °C )	<	1100 hPa	
<b>Density :</b>	( 20 °C )	approx.	0,91 g/cm <sup>3</sup>	
<b>Solvent separation test :</b>	( 20 °C )	<	3 %	
<b>pH :</b>		approx.	6,5	
<b>Flow time :</b>	( 20 °C )	approx.	12 s	DIN-cup 4 mm

### 9.2 Other information

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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 effects

##### Acute oral toxicity

Parameter :	LD50 ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Oral
Species :	Rat
Effective dose :	8700 mg/kg
Parameter :	LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	3500 mg/kg
Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5660 mg/kg
Parameter :	LD50 ( CYCLOHEXANONE ; CAS No. : 108-94-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1620 mg/kg
Parameter :	LD50 ( 2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	2400 mg/kg
Parameter :	LD50 ( 2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2 )
Exposure route :	Oral
Species :	Mouse
Effective dose :	3200 mg/kg

##### Acute dermal toxicity

Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
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Exposure route : Dermal  
Species : Rabbit  
Effective dose : 9999,99 mg/kg  
Parameter : LD50 ( CYCLOHEXANONE ; CAS No. : 108-94-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 1000 mg/kg  
Parameter : LD50 ( 2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : 1580 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 5000 mg/kg

### Acute inhalation toxicity

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 6350 mg/l

### Practical experience/human evidence

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

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 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.

### Product/Packaging disposal



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

- 080111

## Waste treatment options

### Appropriate disposal / Package

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)

## SECTION 14: Transport information

### 14.1 UN number

UN 1263

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

PAINT RELATED MATERIAL

#### Sea transport (IMDG)

PAINT RELATED MATERIAL

#### Air transport (ICAO-TI / IATA-DGR)

PAINT RELATED MATERIAL

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 33  
**Tunnel restriction code :** D/E  
**Special provisions :** 640D · LQ 5 I · E 2  
**Hazard label(s) :** 3

#### Sea transport (IMDG)

**Class(es) :** 3  
**EmS-No. :** F-E / S-E  
**Special provisions :** LQ 5 I · E 2  
**Hazard label(s) :** 3

#### Air transport (ICAO-TI / IATA-DGR)

**Class(es) :** 3  
**Special provisions :** E 2  
**Hazard label(s) :** 3

### 14.4 Packing group

II

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** No

**Sea transport (IMDG) :** No

**Air transport (ICAO-TI / IATA-DGR) :** No

### 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

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### National regulations

#### Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

### 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 · 14. Transport hazard class(es) - Land transport (ADR/RID)

### 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]

No information available.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

### 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.