

Safety Data Sheet

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



Trade name : Marking Ink 777
black
Revision date : 05.10.2020
Print date : 05.10.2020

Version (Revision) : 22.1.1 (22.1.0)

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

1.1 Product identifier

Marking Ink 777
black (15050300001038)
Unique Formula Identifier (UFI): 3XUQ-3Q8P-QYEU-7XTP

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]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye 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



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.

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P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

ETHANOL ; REACH Registration No. : 01-2119457610-43-xxxx ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction : < 10 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

C. I. BASIC GREEN 4; C.I.42000 ; EC No. : 241-922-5; CAS No. : 18015-76-4

Weight fraction : < 2,5 %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Repr. 2 ; H361d Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

C.I. SOLVENT ORANGE 3 ; EC No. : 207-803-7; CAS No. : 495-54-5

Weight fraction : < 2,5 %

Classification 1272/2008 [CLP] : Muta. 2 ; H341 Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

Xanthene dye; CI.45160; similar C.I. Basic Red 1 ; REACH Registration No. : 01-2119935914-30-xxxx ; EC No. : 700-761-5; CAS No. : 26694-69-9

Weight fraction : < 1 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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.

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

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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 (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

GLYCEROL ; CAS No. : 56-81-5

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Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 200 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 29.03.2019

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

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 6 ppm / 35 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 29.03.2019

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 200 ppm / 380 mg/m³
Peak limitation : 4(II)
Remark : Y
Version : 29.03.2019

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 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) ~	100	°C
Decomposition temperature :	>	200	°C
Flash point :	~	55	°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

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Density :	(20 °C)	~	1,12	g/cm ³
Solvent separation test :	(20 °C)	<	3	%
Water solubility :	(20 °C)		No data available	
pH :		~	2,6	
log P O/W :			No data available	
Flow time :	(20 °C)	~	14	s DIN-cup 4 mm
Odour threshold :			No data available	
Relative vapour density :	(20 °C)		No data available	
Vapourisation rate :			No data available	
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 (C. I. BASIC GREEN 4; C.I.42000 ; CAS No. : 18015-76-4)
Exposure route : Oral
Species : Rat
Effective dose : 275 mg/kg

Acute dermal toxicity

Parameter : LD50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : 20000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Inhalation

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Species : Rat
Effective dose : 124,7 mg/l
Exposure time : 4 h

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 (ETHANOL ; CAS No. : 64-17-5)
Result : Not an irritant
Parameter : Skin corrosion/irritation (Xanthene dye; CI.45160; similar C.I. Basic Red 1 ; CAS No. : 26694-69-9)
Species : Guinea pig
Method : OECD 404

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (ETHANOL ; CAS No. : 64-17-5)
Result : Strongly irritant
Parameter : Serious eye damage/eye irritation (C. I. BASIC GREEN 4; C.I.42000 ; CAS No. : 18015-76-4)
Species : Rabbit
Parameter : Serious eye damage/eye irritation (Xanthene dye; CI.45160; similar C.I. Basic Red 1 ; CAS No. : 26694-69-9)
Species : Rabbit

Respiratory or skin sensitisation

Skin sensitisation

Parameter : Skin sensitisation (ETHANOL ; CAS No. : 64-17-5)
Result : Not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : Carcinogenicity (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Carcinogenicity
Result : Negative.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : In vitro mutagenicity (ETHANOL ; CAS No. : 64-17-5)
Exposure route : In vitro mutagenicity
Result : Negative.

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : One generation reproduction toxicity test (ETHANOL ; CAS No. : 64-17-5)
Exposure route : One generation reproduction toxicity test
Result : Negative.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Acute (short-term) fish toxicity
Effective dose : 11000 mg/l
Exposure time : 96 h

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Parameter : LC50 (C. I. BASIC GREEN 4; C.I.42000 ; CAS No. : 18015-76-4)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,1 - 1 mg/l
Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Daphnia magna (Big water flea)
Effective dose : 9950 mg/l
Exposure time : 48 h

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Daphnia magna (Big water flea)
Effective dose : 9280 mg/l
Exposure time : 48 h

Parameter : EC50 (C. I. BASIC GREEN 4; C.I.42000 ; CAS No. : 18015-76-4)
Species : Daphnia magna (Big water flea)
Effective dose : 0,1 - 1 mg/l

Parameter : EC50 (Xanthene dye; CI.45160; similar C.I. Basic Red 1 ; CAS No. : 26694-69-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 1,8 mg/l
Exposure time : 48 h
Method : OECD 202

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

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Chlorella vulgaris
Effective dose : 275 mg/l
Exposure time : 3 h
Evaluation : Harmless to algae up to the concentration tested.
Method : OECD 201

Parameter : EC50 (Xanthene dye; CI.45160; similar C.I. Basic Red 1 ; CAS No. : 26694-69-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1,4 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) algae toxicity

Parameter : EC10 (ETHANOL ; CAS No. : 64-17-5)
Species : Chlorella vulgaris
Effective dose : 11,5 mg/l
Exposure time : 3 h
Evaluation : Chronic (long-term) algae toxicity
Method : OECD 201

Toxicity to microorganisms

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Bacteria toxicity
Effective dose : 5800 mg/l
Exposure time : 4 h

Parameter : Bacteria toxicity (C. I. BASIC GREEN 4; C.I.42000 ; CAS No. : 18015-76-4)
Species : Bacteria toxicity
Evaluation parameter : Bacteria toxicity
Effective dose : 10 - 100 mg/l
Evaluation : Bacteria toxicity
Method : OECD 209

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Sewage treatment plant

Parameter : Effects in sewage plants (C. I. BASIC GREEN 4; C.I.42000 ; CAS No. : 18015-76-4)
Inoculum : Activated sludge
Evaluation : Effects in sewage plants
Method : OECD 209

12.2 Persistence and degradability

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

Biodegradation

Parameter : Biodegradation (ETHANOL ; CAS No. : 64-17-5)
Inoculum : Degree of elimination
Degradation rate : 84 %
Test duration : 20 h
Evaluation : Readily biodegradable (according to OECD criteria).
Parameter : Biodegradation (Xanthene dye; CI.45160; similar C.I. Basic Red 1 ; CAS No. : 26694-69-9)
Inoculum : Degree of elimination
Evaluation parameter : Biodegradation
Degradation rate : 27 %
Test duration : 28 t/a
Method : OECD 301B

12.3 Bioaccumulative potential

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)

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

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PAINT RELATED MATERIAL

Sea transport (IMDG)

PAINT RELATED MATERIAL (C. I. BASIC GREEN 4; C.I.42000 · Xanthene dye; CI.45160; similar C.I. Basic Red 1)

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.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 5 I · E 1
Hazard label(s) : 3 / N

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / ~~S-E~~
Special provisions : LQ 5 I · E 1
Hazard label(s) : 3 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

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, 40

National regulations

Water hazard class (WGK)

Classification according to AwSV - Class : 3 (Strongly hazardous to water)

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients

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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)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.