

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)
Whiteboard Ink WB600.11 All Colours (see listed in Section 16*)

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2.2 – Label elements
Labelling according to Regulation (EC) No. 1272/2008

Hazard symbols:



Signal word : Danger

 Hazard statements : H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

 Precautionary statements : P210 Keep away from heat/sparks/open flames/hot surfaces. No
 Prevention smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment. Take
 P243 precautionary measures against static discharge.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face
 protection.
 P305 IF IN EYES: rinse cautiously with water for several minutes.
 P351 Remove contact lenses, if present and easy to do. Continue
 P338 rinsing.
 P337 If eye irritation persists: get medical advice/attention.
 P313
 Storage : P403 Store in a well-ventilated place. Keep cool.
 P235

2.3 – Other hazards

No other information is available.

3.0 – Composition/information on ingredients
3.1 – Substances

Chemical nature : mixture

Chemical name	Index No.	REACH Reg. No.	CAS No.	EC No.	Amount (%)
Ethanol	603-002-00-5	01-2119457610-43	64-17-5	200-578-6	<70%
Propan-2-ol	603-117-00-0	01-2119457558-25	67-63-0	200-661-7	<16%
Diocetyl maleate		01-2119524002-60	142-16-5	205-524-5	<10%

Chemical name	Classification according to Regulation (EC) No. 1272/2008
Ethanol	H225 (2)
Propan-2-ol	H225 (2), H319 (2), H336 (3)
Diocetyl maleate	H373(2), H410(1)

For the full text of the H-Statements mentioned in this Section, see Section 16.

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4.0 – First aid measures
4.1 – Description of first aid measures

- | | | |
|-------------------------|---|---|
| General advice | : | Take off all contaminated clothing immediately |
| In case of inhalation | : | Remove to fresh air. If symptoms persist, seek medical advice. If unconscious place in recovery position. |
| In case of skin contact | : | Wash off with plenty of water. If skin irritation persists, seek medical advice. |
| In case of eye contact | : | Rinse thoroughly with plenty of water, also under the eyelids. Consult an eye specialist immediately. |
| In case of ingestion | : | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting – seek medical advice. |

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

- | | | |
|----------|---|-----------------------------------|
| Symptoms | : | No further information available. |
| Effects | : | No further information available. |

4.3 – Indication of immediate medical attention and special treatment needed

- | | | |
|-----------|---|---|
| Treatment | : | Treat symptomatically.
No further information available. |
|-----------|---|---|

5.0 – Fire-fighting measures
5.1 – Extinguishing media

- | | | |
|--------------------------------|---|--|
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | : | High volume water jet. |

5.2 – Special hazards arising from the substance or mixture

- | | | |
|---------------------------------------|---|---|
| Specific hazards during fire-fighting | : | Highly flammable. Vapours may form explosive mixtures with air. In case of fire hazardous decomposition products may be produced, such as carbon monoxide (CO) and carbon dioxide (CO ₂). |
|---------------------------------------|---|---|

5.3 – Advice for fire-fighters

- | | | |
|--|---|---|
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit). |
| Further information | : | Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise – with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |

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6.0 – Accidental release measures
6.1 – Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

6.2 – Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 – Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

Further information : Treat recovered material as described in Section 13.

6.4 – Reference to other sections

For personal protection see Section 8.

7.0 – Handling and storage
7.1 – Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the working day. Take off all contaminated clothing immediately. Avoid contact with skin and eyes. Do not breathe vapours of spray mist.

7.2 – Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in an area equipped with solvent resistant flooring. Store in original container.

Advice on protection against fire and explosion : Combustible liquid. Keep away from sources of ignition – no smoking. Take measures to prevent the build-up of electrostatic charge. Vapours may form explosive mixtures in air. Use only in an area containing explosion proof equipment.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat. Keep away from direct sunlight.

Advice on common storage : Incompatible with oxidizing agents. Keep away from food, drink and animal feeding stuffs.

7.3 – Specific end uses

Specific use(s) : No information available.

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8.0 – Exposure controls/personal protection
8.1 – Control parameters

Component: ethanol; ethyl alcohol		CAS No. 64-17-5
Other OELs		
Regulatory basis	:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list	:	EH40 WEL
Value type	:	Time Weighted Average (TWA):
Value	:	1000 ppm
Value	:	1920 mg/m ³

Component: propan-2-ol; isopropyl alcohol		CAS No. 67-63-0
Other OELs		
Regulatory basis	:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list	:	EH40 WEL
Value type	:	Time Weighted Average (TWA):
Value	:	400 ppm
Value	:	999 mg/m ³
Regulatory basis	:	UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list	:	EH40 WEL
Value type	:	Short Term Exposure Limit (STEL):
Value	:	500 ppm
Value	:	1250 mg/m ³

8.2 – Exposure controls
Engineering measures

Refer to protective measures listed in Sections 7 and 8.

Personal protective equipment
Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL). Respirator with a gas filter. Recommended filter type: A.

Hand protection

Advice : Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear.

Material : Butyl-rubber

Gloves : >= 8 h

Glove thickness : 0.5 mm

Material : Fluorocarbon rubber

Gloves : >= 8 h

Glove thickness : 0.4 mm

Material : Polychloroprene

Gloves : >= 2 h

Glove thickness : 0.5 mm

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Advice : Safety glasses.

Skin and body protection

General advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not let product enter drains. If the product contaminates rivers and lakes or drains inform respective authorities.

9.0 – Physical and chemical properties**9.1 – Information on basic physical and chemical properties**

Appearance	: Various colours, liquid
Odour	: Alcohol-like
Odour threshold	: Not determined
pH	: 3 to 9
Melting point / freezing point	: -114.5°C
Initial boiling point and boiling range	: 78.3°C
Flash point	: 12°C
Evaporation rate	: Not determined
Flammability	: Not determined
Upper/lower flammability or explosive limits	: 15% (V), 3.5% (V)
Vapour pressure	: 59 hPa 20°C
Vapour density	: Not determined
Relative density	: Not determined
Solubility	: Miscible in water, readily miscible with solvents
Partition coefficient: n-octanol/water	: Not determined
Auto-ignition temperature	: 425°C
Decomposition temperature	: Not determined
Viscosity	: 4 to 13cP (20°C)
Explosive properties	: Not determined
Oxidising properties	: Not determined

9.2 – Other information

No further information available.

10.0 – Stability and reactivity**10.1 – Reactivity**

Advice : Stable under recommended storage conditions.

10.2 – Chemical stability

Advice : Stable under normal conditions.

10.3 – Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4 – Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

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10.5 – Incompatible Materials

Materials to avoid : Alkali metals, alkaline earth metals, strong oxidizing agents, nitric acid, sulphuric acid, peroxides (e.g. hydrogen peroxide).

10.6 – Hazardous decomposition products

 Hazardous decomposition products : Under fire conditions: carbon monoxide (CO), carbon dioxide (CO₂).

11.0 – Toxicological information
11.1 – Information on toxicological effects

Component: ethanol; ethyl alcohol		CAS No. 64-17-5
Acute toxicity		
Oral		
Value type	:	LD50
Value	:	6200 mg/kg
Species	:	rat
Inhalation		
Value type	:	LC50
Value	:	124.7 mg/kg
Exposure time	:	4 h
Species	:	rat
Irritation		
Skin		
Remarks	:	Degreases the skin, which may cause dryness. Prolonged or repeated skin contact may result in dermatitis.
Eyes		
Remarks	:	Splashes in eyes may cause strong pain. Vapour can cause irritation.
Sensitisation		
Remarks	:	Did not cause sensitisation on laboratory animals.
Further information		
Other relevant toxicity information	:	All numerical values for acute toxicity are calculated on the pure substances.
Experiences with human exposure	:	Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

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Component: propan-2-ol; isopropyl alcohol		CAS No. 67-63-0
Acute toxicity		
Oral		
Value type	:	LD50
Value	:	5280 mg/kg
Species	:	rat
Inhalation		
Value type	:	LC50
Value	:	72.6 mg/kg
Exposure time	:	4 h
Species	:	rat
Value type	:	LC50
Value	:	47.5 mg/l
Exposure time	:	8 h
Species	:	rat
Dermal		
Value type	:	LD50
Value	:	12800 mg/kg
Species	:	rabbit
Irritation		
Skin		
Species	:	rabbit
Result	:	No skin irritation
Eyes		
Species	:	rabbit.
Result	:	Irritating to eyes
Sensitisation		
Species	:	Guinea pig
Result	:	Not sensitizing
Method	:	Buehler test
Further information		
Other relevant toxicity information	:	All numerical values for acute toxicity are calculated on the pure substances.
Experiences with human exposure	:	Prolonged skin contact may defat the skin and result in dermatitis. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Risk of product entering the lungs on vomiting after ingestions. Liver injury may occur.

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Component: dioctyl maleate	CAS No. 142-16-5
Acute toxicity	
Oral	
Value type	: LD50
Value	: <2000 mg/l
Species	: rat
Inhalation	
Value type	: LC50
Value	: >5000 mg/m ³
Dermal	
Value type	: LD50
Value	: 15 ml/kg

12.0 – Ecological information
12.1 – Toxicity

Component: ethanol; ethyl alcohol	CAS No. 64-17-5
Acute toxicity	
Fish	
Species	: Leuciscus idus (Golden orfe)
Value type	: LC50
Value	: 8150 mg/l
Toxicity to daphnia and other aquatic invertebrates	
Species	: Daphnia magna
Exposure time	: 48 h
Value type	: EC50
Value	: 9268 – 14221 mg/l
Algae	
Species	: Scenedesmus quadricauda
Exposure time	: 168 h
Value type	: EC0
Value	: 5000 mg/l
Bacteria	
Species	: Pseudomonas putide
Value type	: EC0
Value	: 6500 mg/l
Remarks	: Cell-proliferation inhibition test

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Component: propan-2-ol; isopropyl alcohol	CAS No. 67-63-0
Acute toxicity	
Fish	
Species	: Pimephales promelas
Exposure time	: 96 h
Value type	: LC50
Value	: 9640 mg/l
Toxicity to daphnia and other aquatic invertebrates	
Species	: Daphnia magna
Exposure time	: 48 h
Value type	: EC50
Value	: 13299 mg/l
Algae	
Species	: Desmodesmus subspicatus (green algae)
Exposure time	: 72 h
Value type	: EC50
Value	: >1000 mg/l
Bacteria	
Species	: Pseudomonas putide
Exposure time	: 18 h
Value type	: EC10
Value	: 5175 mg/l
Method	: DIN 38412
Species	: Activated sludge
Value type	: EC50
Value	: >1000 mg/l
Remarks	: Respiration inhibition of activated sludge

Component: dioctyl maleate	CAS No. 142-16-5
Acute toxicity	
Fish	
Species	: fish
Exposure time	: 48 h
Value type	: LC50
Value	: 86 mg/l
Toxicity to daphnia and other aquatic invertebrates	
Species	: Daphnia magna
Exposure time	: 48 h
Value type	: EC50
Value	: >0.76 mg/l
Algae	
Species	: Algae
Exposure time	: 72 h
Value type	: IC50
Value	: >100 mg/l

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12.2 – Persistence and degradability

Component: ethanol; ethyl alcohol	CAS No. 64-17-5
Persistence and biodegradability	
Biodegradability	
Remarks	: Readily biodegradable

Component: propan-2-ol; isopropyl alcohol	CAS No. 67-63-0
Persistence and biodegradability	
Biodegradability	
Biodegradation	: 95%
Exposure time	: 21 d
Method	: OECD 301 E
Remarks	: Readily biodegradable.

12.3 – Bioaccumulative potential

Component: propan-2-ol; isopropyl alcohol	CAS No. 67-63-0
Bioaccumulation	
Remarks	: Does not bioaccumulate.

12.4 – Mobility in soil

Mobile in water environment.

12.5 – Results of PBT and vPvB assessment

No information available.

12.6 – Other adverse effects

All numerical values for ecotoxicity effects are calculated on the pure substances. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13.0 – Disposal considerations

13.1 – Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not empty into drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product. Do not burn, or use a cutting torch on the empty drum. Risk of explosion.
- European Waste Catalogue Number : 080312 – waste ink containing dangerous substances

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1993

14.2 – UN proper shipping name

ADR : Flammable Liquid n.o.s (contains ethanol)
RID : Flammable Liquid n.o.s (contains ethanol)
IMDG : Flammable Liquid n.o.s (contains ethanol)

14.3 – Transport hazard class(es)

ADR-Class : 3
(Labels ; classification : 3 ; F1 ; 33 : (D/E)
code ; hazard
identification number ;
tunnel restriction code)
RID-Class : 3
(Labels ; classification : 3 : F1 ; 33
code ; hazard
identification number)
IMDG-Class : 3
(Labels ; EmS) : 3 ; F-E, S-D

14.4 – Packaging group

ADR : II
RID : II
IMDG : II

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14.5 – Environmental hazards

Labelling according to 5.2.1.8 ADR :



Labelling according to 5.2.1.8 RID :



Labelling according to 5.2.1.6.3 IMDG :



Classification as environmentally hazardous according to 2.9.3 IMDG : Yes

Classified as 'P' according to 2.10 IMDG : Yes

14.6 – Special precautions for user

Not applicable.

14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

15.0 – Regulatory information

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

No information available.

15.2 – Chemical safety assessment

No information available.

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16.0 – Other information
16.1 – Full text of H-Statements referred to under Sections 2 and 3

- | | | |
|------|---|--|
| H225 | : | Highly flammable liquid and vapour. |
| H319 | : | Causes serious eye irritation. |
| H336 | : | May cause drowsiness or dizziness. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H411 | : | Toxic to aquatic life with long lasting effects. |

16.2 – Further information

- | | | |
|--------------------|---|--|
| *Ink colour shades | : | Black A, Blue B, Red C, Green D, Orange E, Yellow F, Brown G, Emerald J, Scarlet L, Victoria Blue P, Lavender H, Turquoise R, Purple T, Violet V, Rose Pink X, Lemon Grass Y, Ruby Red CS, Golden Orange EF, Mandarin Orange EK, Lime Green YQ, Blood Red YR, Jade JS, Bright Red BR, Orange CE, Red C3, Blue 7-42C, Dark Blue BX, Brick Red LX, Orange 9-69B, Pink 9-131B, Red 12-52A |
| Other information | : | The information provided in this safety data sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this safety data sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. |
| HS Tariff Code | : | 32159000 |