

SDS No. 13263
20991-1109
1009

SAFETY DATA SHEET
LIQUITEX MARKER PEN COLOUR FORMULATIONS

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name LIQUITEX MARKER PEN COLOUR FORMULATIONS
Product No. 3013646647604 to 3013646648106

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

Identified uses Marker Intermediate

1.3. Details of the supplier of the safety data sheet

Contact Person Jon Lloyd Group Regulatory Affairs Manager +44 (0)2084243224; j.lloyd@colart.co.uk
Manufacturer ColArt International SA
5 Rue Rene Panhard
Z.I .Nord
72021 Le Mans Cedex 2
+33 2 43 83 83 00
Lefranc-Bourgeois@colart.fr

1.4. Emergency telephone number

33 (0)2 43 83 83 00 This number is only available during office hours.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) R10.

2.2. Label elements

| | | |
|----------------|-----|--|
| Risk Phrases | R10 | Flammable. |
| Safety Phrases | S2 | Keep out of the reach of children. |
| | S46 | If swallowed, seek medical advice immediately and show this container or label. |
| | S51 | Use only in well-ventilated areas. |
| | S56 | Dispose of this material and its container to hazardous or special waste collection point. |

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| | |
|---|--|
| 2-BUTOXYETHANOL | < 1% |
| CAS-No.: 111-76-2 | EC No.: 203-905-0 |
| | Registration Number: 01-2119475108-36-xxxx |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 | Classification (67/548/EEC) Xn;R20/21/22 Xi;R36/38 |

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| | | |
|---|--|--|
| 2-DIMETHYLAMINOETHANOL | | < 1% |
| CAS-No.: 108-01-0 | EC No.: 203-542-8 | |
| Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 STOT SE 3 - H335 | Classification (67/548/EEC) R10 C;R34 Xn;R20/21/22 | |
| BUTANOL-norm | | < 1% |
| CAS-No.: 71-36-3 | EC No.: 200-751-6 | |
| Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT SE 3 - H336 | Classification (67/548/EEC) R10 Xn;R22 Xi;R37/38,R41 R67 | |
| ETHANOL | | 10-30% |
| CAS-No.: 64-17-5 | EC No.: 200-578-6 | Registration Number: 01-2119457610-43-xxxx |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 | Classification (67/548/EEC) F;R11 | |
| METHANOL | | < 1% |
| CAS-No.: 67-56-1 | EC No.: 200-659-6 | Registration Number: 01-2119433307-44-xxxx |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370 | Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Immediately rinse mouth and provide fresh air. DO NOT INDUCE VOMITING! Get medical attention.

Skin contact

Wash the skin immediately with soap and water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids.

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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LIQUITEX MARKER PEN COLOUR FORMULATIONS**4.2. Most important symptoms and effects, both acute and delayed****4.3. Indication of any immediate medical attention and special treatment needed****SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

Extinguishing media

Use: Powder. Dry chemicals. sand. dolomite etc. Water spray. fog or mist.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

FLAMMABLE.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and aerosol spray.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment.

6.4. Reference to other sections**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place.

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|------------------------|-----|-------------|----------------------------|---------------|----------------------------|-------|
| | | | | | | |
| 2-BUTOXYETHANOL | OES | 25 ppm(Sk) | | 50 ppm(Sk) | | |
| 2-DIMETHYLAMINOETHANOL | OES | 2 ppm | 7.4 mg/m ³ | 6 ppm | 22 mg/m ³ | |
| BUTANOL-norm | OES | | | 50 ppm(Sk) | 154 mg/m ³ (Sk) | |
| ETHANOL | OES | 1000 ppm | 1920 mg/m ³ | | | |
| METHANOL | OES | 200 ppm(Sk) | 266 mg/m ³ (Sk) | 250 ppm(Sk) | 333 mg/m ³ (Sk) | |

Ingredient Comments

OES = Occupational Exposure Standard.

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LIQUITEX MARKER PEN COLOUR FORMULATIONS**8.2. Exposure controls****Protective equipment****Engineering measures**

Provide adequate general and local exhaust ventilation.

Respiratory equipment

In case of inadequate ventilation use suitable respirator.

Hand protection

Use suitable protective gloves if risk of skin contact.

Eye protection

Use eye protection. Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Use appropriate skin cream to prevent drying of skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|--------------------------|--------------------------------|
| Appearance | Coloured liquid. |
| Colour | Misc. colours. |
| Odour | Characteristic. |
| Solubility | Miscible with water |
| pH-Value, Conc. Solution | 8.5 |
| Viscosity | 50 seconds Ford 406/2 cup s 20 |
| Flash point | 33 CC (Closed cup). |

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity****10.2. Chemical stability**

Avoid Heat, sparks, flames.

10.3. Possibility of hazardous reactions**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials**10.6. Hazardous decomposition products**

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity:**

Acute Toxicity (Oral LD50)

Not determined.

Acute Toxicity (Dermal LD50)

Not determined.

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Acute Toxicity (Inhalation LC50)
Not determined.

Inhalation

Prolonged inhalation of high concentrations may damage respiratory system. May cause irritation to the respiratory system.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings

Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes.

Route of entry

Inhalation. Skin and/or eye contact.

Target Organs

Respiratory system, lungs Eyes Skin

Medical Symptoms

Inhalation may cause: Headache. Dizziness. Stupor.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not known.

12.1. Toxicity**Acute Toxicity - Fish**

Not determined.

Acute Toxicity - Aquatic Invertebrates

Not determined.

Acute Toxicity - Aquatic Plants

Not determined.

Acute Toxicity - Microorganisms

Not determined.

12.2. Persistence and degradability**Degradability**

The degradability of the product has not been stated.

12.3. Bioaccumulative potential**Bioaccumulation factor**

Not determined.

12.4. Mobility in soil**Mobility:**

Highly volatile and will rapidly evaporate to the air

12.5. Results of PBT and vPvB assessment**12.6. Other adverse effects**

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

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LIQUITEX MARKER PEN COLOUR FORMULATIONS**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

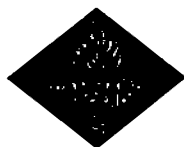
| | |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 1263 |
| UN No. (IMDG) | 1263 |
| UN No. (ICAO) | 1263 |

14.2. UN proper shipping name

| | |
|----------------------|------------------------|
| Proper Shipping Name | PAINT RELATED MATERIAL |
| Proper Shipping Name | PAINT RELATED MATERIAL |

14.3. Transport hazard class(es)

| | |
|---------------------|-----------------------------|
| ADR/RID/ADN Class | 3 |
| ADR/RID/ADN Class | Class 3: Flammable liquids. |
| ADR Label No. | 3 |
| IMDG Class | 3 |
| ICAO Class/Division | 3 |
| Transport Labels | |

**14.4. Packing group**

| | |
|---------------------------|-----|
| ADR/RID/ADN Packing group | III |
| IMDG Packing group | III |
| ICAO Packing group | III |

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

| | |
|-------------------------|--|
| Hazard No. (ADR) | 30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or a heating liquid. |
| Tunnel Restriction Code | (D/E) |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Legislation**

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

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SECTION 18: OTHER INFORMATION

| | |
|---------------------------|---|
| Date | 11/04/12 |
| Risk Phrases In Full | |
| R34 | Causes burns. |
| R10 | Flammable. |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R22 | Harmful if swallowed. |
| R11 | Highly flammable |
| R36/38 | Irritating to eyes and skin. |
| R37/38 | Irritating to respiratory system and skin. |
| R37 | Irritating to respiratory system. |
| R41 | Risk of serious damage to eyes. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| R67 | Vapours may cause drowsiness and dizziness. |
| Hazard Statements In Full | |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H370 | Causes damage to organs <<Organs>>. |

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.