

# Safety Data Sheet

Acc. to regulation (EC) no. 1907/2006

**488 50-9**

No. of article

Prepared: Jul 31, 1996

Revised: Jun 24, 2021

Printed: 15.10.2021, nuernber

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

### **1.1. Product identifier**

Lumocolor permanent marker refill station, black

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

#### **Relevant applications identified:**

Ink(s) for writing, drawing and marking

#### **Applications which are not advised:**

None known

### **1.3 Details of the supplier of the safety data sheet**

STAEDTLER MARS GmbH & Co. KG  
Moosaeckerstrasse 3  
90427 Nuremberg  
GERMANY

Telephone: +49-(0)911-9365-0  
e-mail adress: info@staedtler.com

#### **Responsible for the Safety Data Sheet:**

Andreas Schaefer, Central Department Product Safety  
e-mail adress: sdb@staedtler.com

**1.4. Emergency telephone number:** +49-(0)911-9365-731 Only during office hours: Mo - Fr, 8:30 am - 5:00 pm

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## **SECTION 2: HAZARDS IDENTIFICATION**

### **2.1 Classification of the substance or mixture**

This product is dangerous within the meaning of Regulation (EC) No 1272/2008

#### **Classification according to Regulation (EC) No 1272/2008:**

Flam. Liq. 2	Flammable liquids, Hazard category 2
Eye Dam. 1	Serious eye damage, Hazard category 1
STOT SE 3	Specific target organ toxicity (single exposure), Hazard category 3

### **2.2 Label elements**

#### **Label elements according to Regulation (EC) No. 1272/2008 (CLP)**

This product is dangerous within the meaning of Regulation (EC) No 1272/2008

#### **Classification according to Regulation (EC) No 1272/2008:**

Flam. Liq. 2	Flammable liquids, Hazard category 2
Eye Dam. 1	Serious eye damage, Hazard category 1
STOT SE 3	Specific target organ toxicity (single exposure), Hazard category 3

#### **Signal word:**

Danger!

#### **Hazard determining component(s) for labelling:**

Propan-1-ol  
Acetone  
1-methoxypropan-2-ol

#### **Hazard pictograms:**

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## Hazard statements:

H225 Highly flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

## Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 Keep container tightly closed.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container to hazardous or special waste collection point.

## 2.3. Other hazards

Results of the PBT and vPvB assessment.  
- PBT: Not applicable  
- vPvB: Not applicable.

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## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1. Substances

This product is a mixture pursuant to Regulation (EC) 1272/2008

### 3.2. Mixtures

#### General chemical characterisation:

Alcoholic solution(s) from resins and dyes

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Name of Substance		
CAS-No.	EC-No.	REACH-No.
Symbol of Danger		Wt.-%
Hazard class	H-Phrase	
Propan-1-ol		
71-23-8	200-746-9	01-2119486761-29-000
GHS02, GHS05, GHS07		20 - 30
STOT SE 3, Eye Dam. 1, Flam. Liq. 2	225, 318, 336	
Ethanol		
64-17-5	200-578-6	01-2119457610-43-000
GHS02, GHS07		20 - 30
Flam. Liq. 2, Eye Irrit. 2	225, 319	
Acetone		
67-64-1	200-662-2	01-2119471330-49-000
GHS02, GHS07		10 - 20
Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	225, 319, 336, EUH066	
1-Methoxypropan-2-ol		
107-98-2	203-539-1	01-2119457435-35-000
GHS02, GHS07		10 - 20
Flam. Liq. 3, STOT SE 3	226, 336	

Full text of H phrases see heading 16.

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## **SECTION 4: FIRST AID MEASURES**

### **4.1. Description of first aid measures**

After contact with eyes: Rinse with water and immediately seek medical care.

After contact with skin: Rinse with water and soap; do not use solvents.

After inhalation: Fresh air supply, seek medical attention if symptoms persist.

If swallowed: Rinse mouth with water and seek precautionary medical care.

### **4.2 Most important symptoms and effects, both acute and delayed**

Irritates skin, eyes and breathing organs, headaches, dizziness, nausea, vertigo, impaired balance, narcosis and loss of consciousness.

Intensive breathing in of the vapours can cause malaise.

### **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media: Powder, carbon dioxide, water spray, foam

Unsuitable extinguishing media: Water with full spray

### **5.2 Special hazards arising from the substance or mixture**

The formation of explosive vapour /air mixtures possible.

Vapours are heavier than air and spread on the ground.

The following can be released in a fire:

Organic decomposition products

### **5.3 Advice for firefighters**

In enclosed spaces, use a self-contained breathing apparatus.

Collect contaminated extinguishing water separately, must not enter sewers.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Keep unprotected persons away.

Remove ignition sources. No smoking. Prevent sparks.

Avoid breathing in the fumes.

Thoroughly ventilate affected areas.

A risk of explosion exists.

### **6.2 Environmental precautions**

Do not allow to enter sewers / surface water or groundwater.

### **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Keep the workspace well ventilated.

Dispose of contaminated material as waste according to Point 13.

### **6.4 Reference to other sections**

See section 7 for information on safe handling.

See section 8 for information on protective equipment.

See section 13 for information on disposal.

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## **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Provides for good ventilation/extraction in the workspace.  
Keep out of reach of children.  
Read label before use.  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.

#### Advice on fire and explosion prevention:

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
Do not spray on an open flame or other ignition source.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Keep away from direct sunlight and other sources of heat and ignition.  
Keep only in original container.  
Store in a well-ventilated place. Keep container tightly closed.

#### Information on storage with other products:

Do not store together with flammable and self-igniting materials or with highly valuable solids.

#### Further information on the storage conditions:

Observe regulations/technical rules on the storage of flammable liquids.

#### Storage class:

LGK 3, flammable liquid substance (TRGS 510, storage of hazardous materials in the mobile containers)

### 7.3 Specific end use(s)

No further relevant information available.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

#### 8.1.1. Limit values for exposure in the workplace and/or biological limit values workplace limit values (AGW) Germany

Name of Substance			CAS-No.
Kind of TLV	Value	Year	Country
Ethanol			64-17-5
AGW	500.00 ml/m <sup>3</sup>	2006	
Acetone			67-64-1
AWG	500.00 ml/m <sup>3</sup>	2014	EU
1-Methoxy-2-propanol			107-98-2
AGW	100.00 ml/m <sup>3</sup>	2006	

#### 8.1.2. DNEL- and PNEC- values

No DNEL and PNEC values are available.

#### 8.1.3. Control-Banding (e.g. ILO, EMKG)

No data on COSHH essentials or the EMKG model from the BAuA is available.

### 8.2. Exposure controls

#### 8.2.1. Suitable technical control elements

No further relevant information available.

## 8.2.2. Individual protective measures – personal protective equipment

### General safety and hygiene measures:

Keep away from drinks, food and feedingstuffs.  
Wash hands before breaks and at the end of the working day.

### Breathing protection:

Respiratory protection not necessary with proper ventilation.

### Hand protection:

Solvent-resistant protective gloves.

### Eye protection:

Eye protection: Protective goggles with risk of splashing

### Body protection:

No protective clothing is necessary for use according to the provisions.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	black		
Odour:	alcoholic		
Boiling range:	> 78	°C	
Melting range:			n.d.
Relative density:	0,89	g/cm <sup>3</sup>	
Vapour pressure:	< 59	hPa	
Viscosity:	4,8	mPas	
pH:	5,8		
Flash point:	-1,0	°C	
Auto-ignition temperature:	> 425	°C	
Explosion limit, lower:	1,7	%vol	
Explosion limit, upper:	15,0	%vol	
Water solubility:	miscible		
Solids content:	18	Gew.-%	
VOC - volatile organic compound:	82	Gew.-%	
VOC - volatile organic compound:	672	g/l	
Organic solvent:	82	Gew.-%	

### 9.2 Other information

Explosion limits, vapour pressure and the auto-ignition temperature refer to the solvents contained.

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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No further relevant information available.

### **10.2. Chemical stability**

Thermal decomposition: Not expected with the specified use.  
The following should be prevented: Heat flame sparks

### **10.3. Possibility of dangerous reactions**

Dangerous reactions: With highly oxidising substances

### **10.4. Conditions to avoid**

No further relevant information available.

### **10.5. Incompatible materials**

No further relevant information available.

### **10.6. Hazardous decomposition products**

No further relevant information available.

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Primary irritant effect on the skin:

- Frequent or prolonged skin exposure can degrease and dry out the skin, which can lead to skin defects and inflammation (dermatitis).

Primary irritant effect in the eyes:

- Causes eye irritation.

Subacute to chronic toxicity:

- Liver damage is possible with chronic exposure

Additional toxicological advice:

- High concentrations can cause drowsiness and narcosis in addition to headaches.

- Prolonged or repeated contact may degrease the skin and lead to skin inflammation (dermatitis).

Inhalation:

- Inhalation of the vapour can cause irritation of the airways.

Ingestion:

- Ingestion may cause irritation

Sensitization:

- No sensitising effect on the skin known.

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## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Aquatic toxicity:

No measurement data is available

### **12.2. Persistence and degradability**

No measurement data is available

### **12.3. Bioaccumulative potential**

No measurement data is available

### **12.4. Mobility in soil**

Do not allow to enter sewers / surface water / groundwater.

### **12.5. Results of PBT and vPvB assessment**

- PBT: Not applicable

- vPvB: Not applicable.

### **12.6. Other adverse effects**

No further relevant information available.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

The advice below relates to the product and not to any further processed products. Mixing with other products can require other disposal procedures; in case of doubt, contact the supplier of the product or the local authorities.

#### **Disposal recommendation**

Must not be disposed of together with house waste. Do not allow to enter sewers.  
Taking into account the provisions of the local authorities, conduct special waste handling operations.

#### **Waste code number:**

Since 1.1.1999, waste code numbers are not only related to the product, but generally related to the application. The valid waste code number for the application can be found in the European waste catalogue.

#### **Recommended waste code number:**

Recommended waste code: 08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances.

#### **Uncleaned packaging:**

Disposal according to the official legislation.

#### **Recommendation for empty containers**

Other containers: completely empty and clean before reconditioning or recycling.  
Caution: Residues in the containers can present an explosion risk. Do not cut, perforate or weld uncleaned containers.

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## **SECTION 14: TRANSPORT INFORMATION**

### **14.1 UN-Number**

1263 - PAINT

### **14.2. UN proper shipping name**

**ADR/RID**

UN 1263 PAINT

**IMDG-Code / ICAO-TI / IATA-DGR**

UN 1263 PAINT

### **14.3 Transport hazard class(es)**

3

### **14.4. Packaging group**

II

**Hazard inducers**

Ethanol

### **14.5. Environmental hazards**

**Label environmentally hazardous substances**

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: yes

Marine Pollutant: no

### **14.6 Special precautions for user**

No further information available.

#### **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No further information available.

##### **Transport/ further information**

Tunnel restriction code D/E

##### **UN "Model Regulation"**

UN 1263, PAINT, 3, II, (D/E)

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### **SECTION 15: REGULATORY INFORMATION**

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

National provisions:

- Major Accidents Ordinance: Substance group 7 (highly flammable liquids); observe quantity threshold.
- Presentation according to the Industrial Safety Regulation (BetrSichV): Highly flammable
- Technical instructions air: No measurement values are available.

Water hazard class: 1 - Slightly water-polluting (self-classification)

REACH (EC) 1907/2006: The main components are preregistered, released or otherwise in conformity.

Additional information:

U.S. Toxic Substances Control Act: all components are listed on the TSCA Inventory.

#### **15.2. Chemical Safety Assessment**

No substance safety assessment was conducted.

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### **SECTION 16: OTHER INFORMATION**

#### **Amendments in this safety data sheet**

Section 9: Physical and chemical properties

#### **Abbreviations**

n.a = not applicable

n.d.: not determined

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

#### **As provided for in Regulation (EC) No 1272/2008:**

##### **Wording of the H phrases in Point 3:**

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H319	Causes serious eye irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.

### **Training for employees**

Instruction must take place before the start of employment and then at least once every year.

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