

Safety Data Sheet

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

487 17-9

No. of article

Prepared: Sep 13, 1994

Revised: Apr 6, 2017

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

1.1. Product identifier

Lumocolor permanent 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
Moosäckerstrasse 3
90427 Nürnberg
GERMANY

Telephone: +49-(0)911-9365-0

e-mail adress: info@staedtler.de

Responsible for the Safety Data Sheet:

Andreas Schaefer, Central dept. environment and product safety

e-mail adress: sdb@staedtler.de

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

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
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
STOT SE 3 Specific target organ toxicity (single exposure), Hazard category 3

Signal word:

Danger!

Hazard determining component(s) for labelling:

1-methoxypropan-2-ol

Hazard pictograms:



Hazard statements:

H225 Highly flammable liquid and vapour.

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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.
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.

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 | R-Phrase | Wt.-% |
| Hazard class | H-Phrase | |
| 1-Methoxypropan-2-ol | | |
| 107-98-2 | 203-539-1 | 01-2119457435-35-XXX |
| 10, GHS02, GHS07 | 10-67 | 40 - 50 |
| Flam. Liq. 3, STOT SE 3 | 226, 336 |  |

Full text of H phrases see heading 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

After contact with eyes: Rinse with water and seek medical care.
After contact with skin: Rinse with water and soap; do not use solvents.
If swallowed: Rinse mouth with water and seek medical care.
After inhalation: Fresh air supply, seek medical attention if symptoms persist.

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.

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.

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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

For good area ventilation, including in the floor area. (Vapours are heavier than air).
Keep out of reach of children.
Do not handle until all safety precautions have been read and understood.
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.

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 |
| 1-Methoxy-2-propanol | | | 107-98-2 |
| AGW | 100.00 ml/m ³ | 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.

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: | 0,94 | g/cm ³ | |
| Vapour pressure: | <= 58 | hPa | |
| Viscosity: | 4,8 | mPas | |
| pH: | 4,0 | | |
| Flash point: | 16,6 | °C | |
| Auto-ignition temperature: | 425 | °C | |
| Explosion limit, lower: | 1,7 | %vol | |

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Explosion limit, upper: 11,5 %vol
Water solubility: partially miscible

9.2 Other information

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

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

Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxide in the event of fire

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.

Sensitization:

- No sensitising effect on the skin known.

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).

- Damage to the liver and kidneys is possible.

Inhalation:

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

Ingestion:

- Ingestion may cause irritation

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 information available.

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.

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

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 relevant 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

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: 2 - Water-polluting (self-classification)
REACH (EC) 1907/2006: The main components are preregistered, released or otherwise in conformity.

15.2. Chemical Safety Assessment

No substance safety assessment was conducted.

SECTION 16: OTHER INFORMATION

Amendments in this safety data sheet

Section 3: Composition/information on ingredients

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:

H226 Flammable liquid and vapour.

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May cause drowsiness or dizziness.

Training for employees

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

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. These products should be stored, handled, and used in conformity with any legal regulation. The information provided above is for general guidance only without responsibility, liability, and warranty on our part and is subject to change without notice.