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

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

1.1. Product identifier

Lumocolor whiteboard marker refill station, green

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)911-9365-0e-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
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

Hazard pictograms:



Hazard statements:

tod. 11.00.2017

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H225 H318 H336	Highly flammable liquid and vapour. Causes serious eye damage. 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.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
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.

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:

Mixture(s) based on organic solvents, resins and pigments

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	
Propan-1-ol		
71-23-8	200-746-9	01-2119486761-29-000
Xi, F, GHS02, GHS05, GHS07	11-41-67	50 - 100
Flam. Liq. 2, Eye Dam. 1, STOT SE 3	225, 318, 336	
1-Methoxypropan-2-ol		
107-98-2	203-539-1	01-2119457435-35-XXX
10, GHS02, GHS07	10-67	2,5 - 10
Flam. Liq. 3, STOT SE 3	226, 336	
Propan-2-ol		
67-63-0	200-661-7	01-2119457558-25-XXX
Xi, F, GHS02, GHS07	11-36-67	2,5 - 10
Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	225, 319, 336	

Full text of H phrases see heading 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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After contact with eyes: Rinse with water and 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 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.

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

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.

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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	
Propan-2-ol			67-63-0
AGW	200.00 ml/m ³	2014	GB

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:

Reading protection not necessary with proper ventilation.

Hand protection:

Solvent-resistant protective gloves.

Eye protection:

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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: Colour: Odour:	liquid green alcoholic			
Boiling range:		82	°C	
Melting range:				n.d.
Relative density:		0,86	g/cm³	
Vapour pressure:		19	hPa	
Viscosity at 20° C:		9	mPa s	
pH:				n.d.
Flash point:		13	°C	
Auto-ignition temperature:		287	°C	
Explosion limit, lov	ver:	1,8	Vol%	
Explosion limit, upper:		13,5	Vol%	
Water solubility:		partially miscible		
Solids content:		7,1	%	
Organic solvent:		79,9	%	

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.

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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). 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 relevant 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.

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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

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

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.

15.2. Chemical Safety Assessment

No substance safety assessment was conducted.

SECTION 16: OTHER INFORMATION

Amendments in this safety data sheet

General revision as provided for in Regulation (EC) No 1272/2008

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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.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

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.

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