

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Lackmarker LM08, Lackmaltinte

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

General use: Tinte für Lackstifte

1.3 Details of the supplier of the safety data sheet

Company name: GIMA e.K.
Street/POB-No.: Altenberger-Dom-Straße 56b
Postal Code, city: 51467 Bergisch Gladbach
Germany
WWW: www.gima-ib.de
E-mail: info@gima-ib.de
Telephone: +49 (0)2202 2 85 85 0
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Dept. responsible for information:
Michel J. Girard,
Telephone: +49 (0)2202 2 85 85 0, Email info@gima-ib.de

1.4 Emergency telephone number

Michel J. Girard,
Telephone: +49 (0)2202 2 85 85 0, Email info@gima-ib.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
STOT SE 3; H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H226
H336Flammable liquid and vapour.
May cause drowsiness or dizziness.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

No risks worthy of mention.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Preparation with: synthetic resin and pigments in ether-alcohol

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 203-539-1 CAS 107-98-2	1-Methoxy-2-propanol	< 85 %	Flam. Liq. 3; H226. STOT SE 3; H336.

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation:	Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact:	Thoroughly wash skin with soap and water. Take off immediately all contaminated clothing.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth with water. Consult physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: Vapours are slightly irritating to mucous membranes.
Inhalation of vapours may induce headaches or vomiting.
Narcotic effect in case of higher doses or prolonged exposure.
In case of ingestion: Mucous membrane irritation, vomiting.
After contact with skin: May cause irritations. Danger of cutaneous absorption.
After eye contact: May cause irritations.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Flammable. Concentrated vapours are heavier than air.
Explosive mixtures with air may even form at room temperature.
Emits toxic fumes under fire conditions.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.
Wear suitable protective clothing.

Additional information:

Hazchem-Code: •3Y

Use fine water spray to cool endangered containers.
Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.
Avoid contact with skin and eyes.
Do not breathe vapours. Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Explosive mixtures with air may even form at room temperature.
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.
Use only spark proof tools.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid generation of vapours/aerosols. Do not breathe vapours. Wear suitable protective clothing. Avoid contact with skin and eyes.

During filling, metering, mixing and sampling must be used: Use local exhaust.

Precautions against fire and explosion:

Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep away from sources of ignition and heat. Keep container dry. Keep away from heat.

Hints on joint storage:

Keep away from acids and oxidizing agents.

Keep away from combustible materials.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
107-98-2	1-Methoxy-2-propanol	Europe: IOELV: STEL	568 mg/m ³ ; 150 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	375 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	560 mg/m ³ ; 150 ppm
		Great Britain: WEL-TWA	375 mg/m ³ ; 100 ppm
		Ireland: 15 minutes	568 mg/m ³ ; 150 ppm
		Ireland: 8 hours	375 mg/m ³ ; 100 ppm

Additional information: The product can be absorbed through skin.

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area. During filling, metering, mixing and sampling must be used: Use local exhaust.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A according to EN 14387.

Hand protection:	Protective gloves according to EN 374. Glove material: Butyl caoutchouc (butyl rubber)-Layer thickness 0,5 mm. Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Unsuitable materials: natural rubber, nitrile rubber, PVC.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Take precautionary measures against static discharges. Avoid contact with skin and eyes. Do not breathe vapours. When using do not eat, drink or smoke. Eye wash facility must be provided. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Form: liquid Colour: various colours
Odour:	essential
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	approx. 120 °C
Flash point/flash point range:	31 °C (DIN EN 456)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 1.70 Vol-% UEL (Upper Explosive Limit): 11.50 Vol-%
Vapour pressure:	at 20 °C: 12 hPa
Vapour density:	No data available
Density:	at 20 °C: 0.98 - 1.2 g/mL
Water solubility:	at 20 °C: complete miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Ignition temperature:	> 250 °C
Solvent content:	<= 82 %

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling

10.4 Conditions to avoid

Keep away from heat. Keep away from sources of ignition.

On contact with air, potentially explosive mixtures may develop.

10.5 Incompatible materials

Keep away from acids and oxidizing agents.

10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: > 5000 mg/kg (1-Methoxy-2-propanol)
LC50 Rat, inhalative: > 6 mg/l/4h (1-Methoxy-2-propanol)
LD50 Rabbit, dermal: > 10000 mg/kg (1-Methoxy-2-propanol)

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Lack of data.
Serious eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Information about 1-Methoxy-2-propanol:
After resorption of toxic quantities: CNS disorders
Toxic effect on liver. Toxic effect on kidneys.

Symptoms

In case of inhalation: Vapours are slightly irritating to mucous membranes.
Inhalation of vapours may induce headaches or vomiting.
Narcotic effect in case of higher doses or prolonged exposure.
In case of ingestion: Mucous membrane irritation, vomiting.
After contact with skin: May cause irritations. Danger of cutaneous absorption.
After eye contact: May cause irritations.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 1-Methoxy-2-propanol:
Algae toxicity: EC50 Selenastrumcapricornutum: > 1000 mg/l/7 d.
Daphnia toxicity: LC50 Daphnia magna: > 500 mg/l
Fish toxicity:
LC50 Leuciscus idus: 4000 - 10000 mg/l/96 h.
LC50 Pimephales promelas: 20800 mg/l/96 h.
LC50 S. gairdnerii: >1000 mg/l

12.2 Persistence and degradability

Further details: Information about 1-Methoxy-2-propanol:
Biodegradation: approx. 90 %/29 d (OECD 301 E).
Product is readily biodegradable.

Oxygen demand: BOD: >60% (1-Methoxy-2-propanol)
dissolved organic carbon (DOC):: >70% (1-Methoxy-2-propanol)

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 01 11* = Waste paint and varnish containing organic solvents or other dangerous substances
* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging
Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 1263

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 1263, Paint

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
III

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 30, UN number UN 1263
Hazard label: 3
Special provisions: 163 367 650
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 - IBC03 - LP01 - R001
Contaminated packaging - Special provisions:
PP1
Special provisions for packing together: MP19
Portable tanks - Instructions: T2
Portable tanks - Special provisions: TP1 - TP29
Tank coding: LGBF
Tunnel restriction code: D/E



Sea transport (IMDG)

EmS: F-E, S-E
Special provisions: 163, 223, 367, 955
Limited quantities: 5 L
Excepted quantities: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T2
Tank instructions - Provisions: TP1, TP29
Stowage and handling: Category A.
Properties and observations: Miscibility with water depends upon the composition.
Segregation group: none



Air transport (IATA)

Hazard label: Flamm. liquid
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Special provisions: A3 A72 A192
Emergency Response Guide-Code (ERG): 3L



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

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •3Y
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
< 82 % by weight

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

H336

May cause drowsiness or dizziness.

Precautionary statements:

P102

Keep out of reach of children.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a POISON CENTER/doctor if you feel unwell.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/container to hazardous or special waste collection point.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H303 = May be harmful if swallowed.

H336 = May cause drowsiness or dizziness.

Reason of change:

Changes in section 2: Labelling (P-phrases: EU, ATP 8)

Date of first version:

13/8/2010

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.