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

Product identifier

Product name: LEVOCIT LIQUID

Cat. No. 40200094

Container size: 300 ml, 1 l

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

<u>Application:</u> For embedding of materialographic specimens

Details of the supplier of the safety data sheet

Supplier: Struers A/S

Pederstrupvej 84 DK-2750 Ballerup Tel:+45 44 600 800

Responsible for material Responsible for material safety data sheet authoring: DHI

safety data sheet authoring: Any questions to the contents of this material safety data sheet should be sent to:

Chemical.info@struers.dk

Emergency telephone number

Emergency telephone: Infotrac:

1-800-535-5053 Struers US: 1-440-871-0071

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#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

The product is classified:

67/548/EEC / 1999/45/EC: F;R11 R43 Xi;R37/38

GHS: Flam. Liq. 2;H225 - Skin Irrit. 2;H315 - Skin Sens. 1;H317 - STOT SE 3;H335

**Label elements** 



Danger

<u>Contains:</u> Methyl methacrylate

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective clothing and gloves.
P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

NFPA Rating: Health:2 Fire:3 Reactivity:0 Other:-

#### Other hazards

The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures. Vapors from organic solvents may be absorbed through the lungs and cause permanent damage to the nervous system, including the brain. The product contains components which may penetrate skin. (\*)

PBT/vPvB: Not relevant.

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

# **Mixtures**

The product contains: Liquid based on methacryl acid ester, containing an activator.

67/548/EEC:

<u>%: CAS-No.: EC No.: REACH Reg. Chemical name: Hazard classification: Notes:</u>
No:

50-75 80-62-6 201-297-1 - Methyl methacrylate F;R11 R43 Xi;R37/38 D

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GHS:

<u>%: CAS-No.: EC No.: REACH Reg. Chemical name: Hazard classification: Notes:</u>

No:

50-75 80-62-6 201-297-1 - Methyl methacrylate Flam. Liq. 2;H225 D

STOT SE 3;H335 Skin Irrit. 2;H315 Skin Sens. 1;H317

References: The full text for all R-phrases and hazard statements are displayed in section 16.

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

#### **Description of first aid measures**

Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation: Move injured person into fresh air and keep person calm under observation. If

uncomfortable: Seek hospital and bring these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.

In case of eczema or other skin disorders: Seek medical attention and bring

these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact

lenses and open eyelids widely. If irritation persists: Seek medical attention and

bring these instructions.

<u>Ingestion:</u> Immediately rinse mouth and drink plenty of water. Keep person under

observation. If person becomes uncomfortable seek hospital and bring these

instructions. Do not induce vomiting.

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

<u>Symptoms/effects:</u> See section 11 for more detailed information on health effects and symptoms.

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

Medical attention/treatments: Not known.

#### **SECTION 5: FIREFIGHTING MEASURES**

## **Extinguishing media**

<u>Extinguishing media:</u> Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Cool containers exposed to heat with water spray and remove container, if no

risk is involved.

# Special hazards arising from the substance or mixture

<u>Specific hazards:</u> During fire, health hazardous gases may be formed.

Advice for firefighters

<u>Protective equipment for</u> Selection of respiratory protection for fire fighting: follow the general fire

<u>fire-fighters:</u> precautions indicated in the workplace.

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

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

<u>Personal precautions:</u> Do not smoke or use open fire, or other sources of ignition. Avoid inhalation of

vapors and contact with skin and eyes. In case of inadequate ventilation: Use

air-supplied respirator.

**Environmental precautions** 

<u>Environmental</u> Avoid discharge into drains, water courses or onto the ground.

precautions:

Methods and material for containment and cleaning up

Spill Cleanup Methods: Remove sources of ignition. Dam and absorb spillages with sand, earth or other

non-combustible material.

Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.

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

Precautions for safe handling

Safe handling advice: Do not smoke or use open fire or other sources of ignition. Avoid inhalation of

vapors and contact with skin and eyes. Observe good chemical hygiene

practices.

<u>Technical measures:</u> Work practice should minimize contact.

<u>Technical precautions:</u> Local exhaust is recommended.

Conditions for safe storage, including any incompatibilities

Technical measures for safe Follow rules for flammable liquids.

storage:

Storage conditions: Store in tightly closed original container in a well-ventilated place. (10 - 25°C)

Specific end use(s)

Specific use(s): Not relevant.

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

#### Control parameters

Occupational exposure limits:

CAS-No.: Chemical name: As: **Exposure limits:** Type: Notes: References: 80-62-6 **OSHA** Methyl methacrylate 100 ppm 410 mg/m3 TWA 80-62-6 Methyl methacrylate 50 ppm **TWA** SEN; A4 **ACGIH** 100 ppm **STEL** SEN; A4; 15min

Notes: SEN: Sensitizer.

A4: Not Classifiable as a Human Carcinogen.

**Exposure controls** 

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and

minimize the risk of inhalation of vapors. Provide easy access to water supply

and eye wash facilities.

<u>Personal protection:</u> Personal protection equipment should be chosen according to the CEN

standards and in discussion with the supplier of the personal protective

equipment.

Hand protection: Wear protective gloves. Laminate (PE/EVOH) gloves are recommended. Be

aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Wear goggles/face shield.

Skin protection: Risk of contact: Wear apron or protective clothing in case of splashes.

Hygiene measures: Remove contaminated clothing and wash the skin thoroughly with soap and

water after work. When using do not eat, drink or smoke.

Environmental Exposure

Controls:

Not available.

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

#### Information on basic physical and chemical properties

Appearance: liquid

Odor: Ester.Ester scent.

pH: Not available.

Boiling point: 101 °C

Flash point: 10 °C

Explosion limits: 2,1-12,5 vol%

<u>Vapor pressure:</u> 47 hPa

Relative density: Not available.

Solubility: Immiscible with water.

Other information

Other data: Volatile Organic Compound (VOC): 750 g/l (calculated)

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

Reactivity

Reactivity: None known.

**Chemical stability** 

Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions

Hazardous Reactions: None known.

Conditions to avoid

Conditions/materials to avoid: Avoid exposure to high temperatures or direct sunlight. Avoid contact with

oxidizing agents.

**Incompatible materials** 

<u>Incompatible materials:</u> None known.

**Hazardous decomposition products** 

<u>Hazardous decomposition</u> None in particular.

products:

# **SECTION 11: TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects

Inhalation: May cause respiratory irritation. Vapors may cause headache, fatigue, dizziness

and nausea.

Skin contact: Causes skin irritation. May cause an allergic skin reaction. Contains components

which may penetrate the skin.

Eye contact: May irritate and cause redness and pain.

Ingestion: Irritating. May be absorbed in the body and cause dizziness, nausea and

vomiting.

Specific effects: Frequent inhalation of even small concentrations may cause irritability, fatigue

and memory failure and eventually permanent damage to the nervous system,

including the brain. May cause sensitization.

Carcinogenicity:

National Toxicology Program (NTP): No.

IARC Cancer Review: Group 3 for Methyl methacrylate.

OSHA: No.

<u>Toxicological data:</u> Methyl methacrylate:

LD50: >5000 mg/kg (oral rat) LC50 (inhalation, rat, 4h): 7093 ppm

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## **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** 

<u>Ecotoxicity:</u> The product is not expected to be hazardous to the environment.

LC50 (Oncorhynchus mykiss, 96 h): >79 mg/l (OECD 203)

Persistence and degradability

<u>Degradability:</u> The degradability of the product has not been stated.

Methyl methacrylate: 30,7% (28 d)(OECD 301C)

**Bioaccumulative potential** 

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT/vPvB: Not relevant.

Other adverse effects

Other adverse effects: None known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 16 05 08

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#### **SECTION 14: TRANSPORT INFORMATION**

**UN number** 

<u>UN-No:</u> 1247

UN proper shipping name

Proper Shipping Name: METHYL METHACRYLATE MONOMER, STABILISED

Additional IMDG information:

EmS: F-E,S-D MFAG: 1

Transport hazard class(es)

Class: 3

Packing group

PG:

**Environmental hazards** 

Marine pollutant: No.
Environmentally Hazardous No.

substance:

Special precautions for user

Special precautions: None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

<u>Transport in bulk:</u> Not relevant.

# **SECTION 15: REGULATORY INFORMATION**

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

Special provisions: TSCA: Listed.

As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

National regulation: Europe/USA:

This Material Safety Data Sheet has been prepared according to the

EU-regulation.

Threshold Limit Values (2014), ACGIH, by the American Conference on

Governmental Industrial Hygienists.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and

Health Standards, Air contaminants (OSHA), with amendments.

International Agency for Research on Cancer (IARC): IARC Monographs on the

Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health

Organization.

#### **Chemical Safety Assessment**

CSA status: Not relevant.

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

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 2.

The (\*) indicates the changes made with respect to the previous version.

Additional information: Classification according to Regulation (EC) No. 1272/2008:

Calculation method.

Wording of H-statements:

R11 Highly flammable.

R37/38 Irritating to respiratory system and skin.

R43 May cause sensitisation by skin contact.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark. www.dhigroup.com.