

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 1/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

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

#### 1.1. Product identifier

Product name: VERSOCIT-2 LIQUID

Cat. No. 40200091, 40200089

Container size: 500 ml, 1 l

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

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

<u>Identified use(s):</u> No specific uses advised against are identified.

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

Supplier: Struers ApS

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

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

sheet authoring:

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

struers@struers.dk

## 1.4. Emergency telephone number

NHS: 111

+45 44 600 800

(Only during office hours)

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 2/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

## **SECTION 2: HAZARDS IDENTIFICATION**

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

CLP: Skin Irrit. 2;H315

Eye Irrit. 2;H319 Skin Sens. 1;H317 Repr. 1B;H360Df

Aquatic Chronic 3;H412 (\*)

#### 2.2. Label elements

(\*)



Danger

<u>Contains:</u> Tetrahydrofurfuryl-2-methacrylate

Tetramethylene dimethacrylate

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360Df May damage the unborn child. Suspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

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

P280 Wear protective clothing, gloves, eye and face protection.

P302 + P352 IF ON SKIN: Wash with plenty of 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.

P337 + P313 If eye irritation persists: Get medical advice/attention.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

PBT/vPvB: No information available.

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

## 3.2. Mixtures

The product contains: binders. (\*)

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 3/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

CLP:						
<u>%:</u>	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
50-75	2455-24-5	219-529-5	-	Tetrahydrofurfuryl-2- methacrylate	Skin Sens. 1;H317 Repr. 1B;H360Df Aquatic Chronic 3;H412	
25-50	27813-02-1	248-666-3	-	2-Hydroxypropyl methacrylate	Skin Irrit. 2;H315 Eye Irrit. 2;H319	
2.5-10	2082-81-7	218-218-1	-	Tetramethylene dimethacrylate	Skin Sens. 1B;H317	
<2.5	99-97-8	202-805-4	-	N,N-Dimethyl-p-toluidine	Acute Tox. 3;H331 Acute Tox. 3;H311 Acute Tox. 3;H301 STOT RE 2;H373 Aquatic Chronic 3;H412	С
<0.1	123-31-9	204-617-8	-	1,4-Dihydroxybenzene	Carc. 2;H351 Muta. 2;H341 Acute Tox. 4;H302 Eye Dam. 1;H318 Skin Sens. 1;H317 Aquatic Acute 1;H400	

References: The full text for all hazard statements is displayed in section 16.

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

#### 4.1. Description of first aid measures

<u>Inhalation:</u> 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 at least 15 minutes. Remove any

contact lenses and open eyelids widely. If irritation persists: Continue flushing

during transport to hospital. Bring along 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.

## 4.2. 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.

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

Medical attention/treatments: Treat symptomatically.

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 4/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

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

## 5.1. Extinguishing media

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

Unsuitable extinguishing media: No specific precautions.

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

Specific hazards: When heated and in case of fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Protective equipment for fire- Selection of respiratory protection for fire fighting: follow the general fire

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

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

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

For non-emergency Avoid inhalation of vapours and contact with skin and eyes. For personal

personnel: protection, see section 8.

For emergency responders: No specific recommendations. For personal protection, see section 8.

#### 6.2. Environmental precautions

Environmental Avoid discharge into drains, water courses or onto the ground.

precautions:

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

Methods for cleaning up: Absorb spillage with suitable absorbent material.

## 6.4. Reference to other sections

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

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

#### 7.1. Precautions for safe handling

Safe handling advice: Avoid inhalation of vapours and contact with skin and eyes. Observe good

chemical hygiene practices.

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

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

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

Technical measures for safe No special precautions.

storage:

Storage conditions: Store in closed original container in a dry place. Avoid contact with oxidising

agents. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Specific use(s): No information available.

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 5/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Occupational exposure limits:

CAS-No.: Chemical name: As: Exposure limits: Type: Notes: References:

123-31-9 Hydroquinone - 0.5 mg/m3 TWA - EH40

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and

minimise the risk of inhalation. 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.

Respiratory equipment: In case of inadequate ventilation use suitable respirator. Use respiratory

equipment with combination filter, type A2/P2.

<u>Hand protection:</u> Wear protective gloves. Butyl rubber gloves are recommended, but 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.

Thickness: 0,3 mm

Breakthrough time: 60 min. (\*)

Eye protection: Wear goggles/face shield.

Skin protection: Wear appropriate clothing to prevent any possibility of skin contact.

<u>Hygiene measures:</u> Wash contaminated clothing before reuse. When using do not eat, drink or

smoke.

Environmental Exposure

Controls:

Not available.

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 6/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

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

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

Form: Liquid.

Colour: Colourless.

Odour: Ester.

Odour threshold:Not available.pH:Not available.Melting point:Not available.

Boiling point: >34°C
Flash point: 91°C

Evaporation rate:

Flammability (solid, gas):

Not available.

Explosive limits

Vapour pressure:

Vapour density:

Not available.

Not available.

Not available.

Relative density: 1,033

<u>Solubility:</u> Insoluble in water <u>Partition coefficient (n-</u> Not available.

octanol/water):

<u>Auto-ignition</u> Not available.

temperature (°C):

<u>Decomposition</u> Not available.

temperature (°C):

<u>Viscosity:</u> Not available.

<u>Explosive properties:</u> Not available.

<u>Oxidising properties:</u> Not available.

9.2. Other information

Other data: Volatile Organic Compound (VOC): 310 g/l (calculated)

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 7/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

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

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

<u>Hazardous Reactions:</u> None under normal conditions.

10.4. Conditions to avoid

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

10.5. Incompatible materials

<u>Incompatible materials:</u> Avoid contact with oxidising agents.

10.6. Hazardous decomposition products

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

products:

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

Acute Toxicity (Oral):

Based on available data, the classification criteria are not met.

Could Toxicity (Dermal):

Based on available data, the classification criteria are not met.

Could Toxicity (Inhalation):

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin May cause an allergic skin reaction.

sensitisation:

<u>Germ cell mutagenicity:</u>

<u>Carcinogenicity:</u>

<u>Based on available data, the classification criteria are not met.

<u>Reproductive Toxicity:</u>

<u>STOT - Single exposure:</u>

Based on available data, the classification criteria are not met.

May damage the unborn child. Suspected of damaging fertility.

<u>Based on available data, the classification criteria are not met.</u>

STOT - Repeated exposure:

Based on available data, the classification criteria are not met.</u>

Aspiration hazard: Based on available data, the classification criteria are not met.

<u>Inhalation:</u> May cause irritation to the respiratory system.

<u>Ingestion:</u> May irritate and cause malaise.

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 8/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Tetrahydrofurfuryl-2-methacrylate: LC50 96 hours, fish, mg/l = 34,7 (\*)

12.2. Persistence and degradability

<u>Degradability:</u> There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB: No information available.

12.6. Other adverse effects

Other adverse effects: No information available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

<u>Waste from residues:</u> Dispose of waste and residues in accordance with local authority requirements.

Waste is classified as hazardous waste.

EWC-code: 16 05 08

<u>Contaminated packaging:</u> Dispose of waste and residues in accordance with local authority requirements.

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 9/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

## **SECTION 14: TRANSPORT INFORMATION**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

## 14.1. UN number

<u>UN-No:</u>

## 14.2. UN proper shipping name

Proper Shipping Name:

## 14.3. Transport hazard class(es)

<u>Class:</u> -

## 14.4. Packing group

<u>PG:</u> -

#### 14.5. Environmental hazards

Marine pollutant: -

Environmentally Hazardous

substance:

## 14.6. Special precautions for user

Special precautions: None known.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

 Product name:
 VERSOCIT-2 LIQUID
 Page:
 10/11

 Revision:
 2020-04-22
 Print date:
 2020-04-22

 Document No.:
 M0174
 SDS-ID:
 GB-EN/13.1

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

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

Special provisions: 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: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of

18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and

2000/21/EC, with amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No.

2677) with amendments.

EH40/2005, Workplace exposure limits 2005, with amendments.

The Management of Health and Safety at Work Regulations 1999 (SI 1999 No.

3242), with amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

## 15.2. Chemical Safety Assessment

CSA status: No chemical safety assessment has been carried out.

**VERSOCIT-2 LIQUID** Product name: Page: 11/11 Revision: 2020-04-22 Print date: 2020-04-22 Document No.: M0174 SDS-ID: GB-EN/13.1

#### **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, 3, 8, 12.

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

Approved by DHI.

Allan Vorus

Abbreviations and acronyms PBT = Persistent, Bioaccumulative and Toxic. <u>used in the safety data sheet:</u> vPvB = very Persistent and very Bioaccumulative.

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

Calculation method.

Wording of H-statements:

H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317

May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

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.