

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/02/2018

Reviewed on 05/02/2018

1 Identification

- Product identifier
- Trade name: **EUKITT 4400 LB**
- Application of the substance / the mixture Resin
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
ORSAtec GmbH
Max-Fischer-Straße 11
86399 Bobingen
Mobil: +49 761 81077
E-Mail: info@orsatec.com
Web: www.eukitt.net
- Information department: Product safety department.
- Emergency telephone number:
Vergiftungs-Informations-Zentrale Freiburg
Tel.: +49 761 19240

2 Hazard(s) identification

- Classification of the substance or mixture



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- Label elements
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS07

- Signal word Warning
- Hazard-determining components of labeling:
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylat
mequinol
- Hazard statements
Harmful if swallowed.
May cause an allergic skin reaction.
- Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.

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- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:
- NFPA ratings (scale 0 - 4)
 - Health = 1
 - Fire = 1
 - Reactivity = 0
- HMIS-ratings (scale 0 - 4)
 - Health = 1
 - Fire = 1
 - Reactivity = 0
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:

42594-17-2 (Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylat	50-100%
150-76-5 mequinol	2.5-10%
- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:
 - Supply fresh air and to be sure call for a doctor.
 - In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Call a doctor immediately.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:

150-76-5 mequinol: 15 mg/m³

· PAC-2:

150-76-5 mequinol: 49 mg/m³

· PAC-3:

150-76-5 mequinol: 320 mg/m³**7 Handling and storage**

- Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:

150-76-5 mequinol (2.5-10%)
 REL Long-term value: 5 mg/m³
 TLV Long-term value: 5 mg/m³
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- Protection of hands:
 - Protective gloves
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
 - Form: viscous liquid
 - Color: Light yellow
- Odor: Mild
- Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
 - Melting point/Melting range: Undetermined.
 - Boiling point/Boiling range: Undetermined.
- Flash point: >110 °C (>230 °F)
- Ignition temperature: 235 °C (455 °F)
- Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
 - Lower: Not determined.
 - Upper: Not determined.
- Vapor pressure at 50 °C (122 °F): ca.5 hPa (~3.8 mm Hg)
- Density at 20 °C (68 °F): 1.1 g/cm³ (9.18 lbs/gal)
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with
 - Water: Not determined.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
 - Dynamic: Not determined.
 - Kinematic: Not determined.
- Solvent content:
 - VOC content: 0.00 %
- VOC - EU: 0.00 %
- VOC - EU: 0.0 g/l
- VOC - CH: 0.00 %
- VOC - USA: 0.0 g/l / 0.00 lb/gl
- Solids content: 90.0 %
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
 - No decomposition if used and stored according to specifications.
- Conditions to avoid No further relevant information available.

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- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Possible in traces.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

42594-17-2 (Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylat
 Oral LD50 >2,000 mg/kg (rat)
 Dermal LD50 >2,000 mg/kg (rabbit)
- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Irritant
- Carcinogenic categories
- IARC (International Agency for Research on Cancer)

None of the ingredients is listed.
- NTP (National Toxicology Program)

None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity:

42594-17-2 (Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylat
 LC50 (96h) 1.65 mg/l (Brachydanio rerio)
 EC50 (48h) 2.36 mg/l (Daphnia magna)
 EC50 (72h) 1.6 mg/l (Pseudokirchneriella subcapitata)
- Persistence and degradability Not easily biodegradable
- Behavior in environmental systems:
 - Bioaccumulative potential No further relevant information available.
 - Mobility in soil No further relevant information available.
- Ecotoxicological effects:
 - Remark: Harmful to fish
- Additional ecological information:
- General notes:

Water hazard class 2 (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Harmful to aquatic organisms
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

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- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
 - DOT, ADR, IMDG, IATA
 - UN proper shipping name
 - DOT
 - ADR
 - IMDG, IATA
- UN3082
Environmentally hazardous substances, liquid, n.o.s.
3082 Environmentally hazardous substances, liquid, n.o.s.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

- Transport hazard class(es)

- DOT



- Class
 - Label
- 9 Miscellaneous dangerous substances and articles
9

- ADR



- Class
 - Label
- 9 (M6) Miscellaneous dangerous substances and articles
9

- IMDG, IATA

- Class
- Void

- Packing group

- DOT, ADR
- III

- IMDG, IATA
- Void

- Environmental hazards:

- Marine pollutant:
- Yes (DOT)

- Special marking (ADR):
- Symbol (fish and tree)

- Special precautions for user
- Warning: Miscellaneous dangerous substances and articles

- Danger code (Kemler):
- 90

- EMS Number:
- F-A,S-F

- Stowage Category
- A

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

- Transport/Additional information:

- DOT

- Remarks:
- Special marking with the symbol (fish and tree).

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vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Skin Sens. 1: Skin sensitisation – Category 1
· * Data compared to the previous version altered.

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