



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

1.1 Product identifier

Product name: Dimengel WB

Product description: Photo curable resin

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

Common uses: Printing/additive manufacturing.

1.3 Details of the supplier of the safety data sheet

N/A

E-mail address of person responsible for this SDS: N/A

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): N/A

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to GHS:

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Sens. 1 H317

Skin Irrit. 2 H315

STOT RE 2 H373

Classification according to 29 CFR 1910.1200 (OSHA HCS):

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Sens. 1 H317

Skin Irrit. 2 H315

STOT RE 2 H373

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

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Sens. 1 H317

Skin Irrit. 2 H315

STOT RE 2 H373

See section 16 for the full text of the H-statements declared above.

2.2 Label elements

Labelling according to GHS:

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 +P317: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

P332 + P317: If skin irritation occurs: Get medical help.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazard

Not available

SECTION 3: Composition / information on ingredients

3.2 Mixtures:

| Ingredient name | Identifiers | % | CLP Classification | GHS Classification | OSHA HCS |
|--|--|-------|---|---|---|
| 4-(1-oxo-2-propenyl)-morpholine | CAS number: 5117-12-4 EC number: 418-140-1 | 24-49 | Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 2 H373 | Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 2 H373 | Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 2 H373 |
| Tricyclodecane dimethanol dimethacrylate | CAS number: 43048-08-4 EC number: 256-062-6 | 7-25 | Skin Irrit. 2 H315 Eye Irrit. 2 H319 | Skin Irrit. 2 H315 Eye Irrit. 2A H319 | Skin Irrit. 2 H315 Eye Irrit. 2As H319 |
| Poly(oxy-1,2-ethanediyl), α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxy- | CAS number: 26915-72-0 EC number: 608-019-1 | 5-30 | Skin Irrit. 2 H315 Eye Irrit. 2 H319 | Skin Irrit. 2 H315 Eye Irrit. 2A H319 | Skin Irrit. 2 H315 Eye Irrit. 2As H319 |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | CAS number: 84434-11-7 EC number: 282-810-6 | 0.1-2 | Skin Sens. 1B H317 Aquatic Chronic 2 H411 | Skin Sens. 1B H317 Aquatic Chronic 2 H411 | Skin Sens. 1B H317 Aquatic Chronic 2 H411 |

See section 16 for the full text of the H-statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of soap and water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable: Foam, carbon dioxide, dry chemical.

Not suitable: Solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode. Cool containers exposed to flame with water spray until well after fire is out.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

6.4 Reference to other sections

See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors, spray, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Keep away from oxidizing agents, reducing agents, acids, bases, inert gas, oxygen scavenger, peroxides, radical forming initiators, strong alkalies, reactive metals. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Occupational exposure limits values: N/A

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: transparent-white thick liquid-gel

Odour: characteristic

Odour threshold: N/A

pH: N/A

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: N/A

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other information:

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use. However, components of this product undergo hazardous polymerization. Polymerization occurs when exposed to white light, ultraviolet light, or heat. Polymerization is exothermic and can degenerate into an uncontrolled reaction.

10.4 Conditions to avoid

Heat, direct sunlight, ultraviolet light, oxygen free atmosphere.

10.5 Incompatible materials

oxidizing agents, reducing agents, acids, bases, inert gas, oxygen scavenger, peroxides, radical forming initiators, strong alkalies or reactive metals

10.6 Hazardous decomposition products

Other decomposition products: not available

In the event of fire: see section 5

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity:

| Product/ingredient name | Test | Species | Dose |
|---|------------------|---------|--------------|
| 4-(1-oxo-2-propenyl)-morpholine | LD50, Oral | Rat | 588 mg/kg |
| | LD50, Dermal | Rat | >2000 mg/kg |
| | LC50, Inhalation | Rat | 5.28 mg/l/4h |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | LD50, Oral | Rat | >5000 mg/kg |
| | LD50, Dermal | Rat | >2000 mg/kg |

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Aspiration hazard: Not available

SECTION 12: Ecological information**12.1 Toxicity**

| Product/ingredient name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|---|-------------------------------|---------------------------|---------------------------------|
| 4-(1-oxo-2-propenyl)-morpholine | EC50/72h (algae) 120 mg/l | - | - |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | EC50/72h (algae) 1.01 mg/l | LC50/96h (fish) 1.89 mg/l | EC50/48h (daphnia) 2.26 mg/l |

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods**Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un numberADR/RID: -IMDG: -IATA: -DOT (US): -**14.2 UN proper shipping name**ADR/RID: Not regulatedIMDG: Not regulatedIATA: Not regulatedDOT (US): Not regulated**14.3 Transport hazard class(es)**ADR/RID: -IMDG: -IATA: -DOT (US): -**14.4 Packing group**ADR/RID: -IMDG: -IATA: -DOT (US): -**14.5 Environmental hazard**

Marine pollutant: N/A

14.6 Special precautions for user

N/A

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

Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:

EU Regulation (EC) No.1907/2006 (REACH) including amendments

Regulation (EC) No.1272/2008 (CLP)

29 CFR 1910.1200 (OSHA HCS)

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureCalifornia Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (Benzene, methyl- 108-88-3 ≤ 0.6%)

TSCA inventory

The substances in this product are included on or exempted from the TSCA inventory.

15.2 Chemical safety assessment

Not available

SECTION 16: Other information

Full text of Hazards Statements referred to in sections 2 and 3:

Acute Tox. - Acute toxicity

Eye Dam. - Serious eye damage

Skin Sens. - Skin sensitization
Skin Irrit. - Skin irritation
Eye Irrit. - Eye irritation
STOT RE - STOT RE - Specific target organ toxicity — repeated exposure
Aquatic Chronic - Hazardous to the aquatic environment
H302: Harmful if swallowed.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H315: Causes skin irritation.
H319: Causes eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS- Chemical Abstract Service
ACGIH- American Conference of Governmental Industrial Hygienists
OSHA- Occupational Safety and Health Administration
NTP- National Toxicology program
IARC- International Agency for Research on Cancer
N/A- Not available
H-statements- Hazard statements
TLV- Threshold Limit Value
TWA- Time-weighted average
STEL- Short-Term Exposure Limit
CSA- Chemical safety assessment

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