

HIT-ICE

Safety information for 2-Component-products

Issue date: 25/07/2023

Revision date: 25/07/2023

Supersedes: 11/11/2022

Version: 8.0

SECTION 1: Kit identification

1.1 Product identifier

Product name

HIT-ICE

Product code

BU Anchor



1.2 Details of the supplier of the Safety information for 2-Component-products

Storage

Storage temperature : 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Classification of the Product

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

Org. Perox. E H242

Eye Irrit. 2 H319

Skin Sens. 1 H317

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

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

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02



GHS07



GHS09

Signal word (CLP)

Warning

Hazardous ingredients

methacrylates, dibenzoyl peroxide

Hazard statements (CLP)

H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

P210 - Keep away from heat, hot surfaces, open flames, sparks. – No smoking.

P280 - Wear eye protection, protective clothing, protective gloves.

P262 - Do not get in eyes, on skin, or on clothing.

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

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P337+P313 - If eye irritation persists: Get medical advice/attention.

HIT-ICE

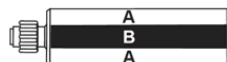
Kit Safety Information Sheet (SIS)

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

Extra phrases

Additional information

Plastic-cartridge, contains:
Methacrylate resin, inorganic filler
Dibenzoyl peroxide, phlegmatized



| Name | General description | Quantity | Unit | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------|---------------------|----------|--------------|---|
| HIT-ICE, A | | 1 | pcs (pieces) | Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| HIT-ICE, B | | 1 | pcs (pieces) | Org. Perox. E, H242 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

SECTION 4: General information

General advice

For professional users only

SECTION 5: Safe handling advice

General measures

Spilled material may present a slipping hazard

Environmental precautions

Prevent entry to sewers and public waters
Notify authorities if liquid enters sewers or public waters

Storage conditions

Keep cool. Protect from sunlight.

Precautions for safe handling

Wear personal protective equipment
Avoid contact with skin and eyes
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work
Provide good ventilation in process area to prevent formation of vapour

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation
Mechanically recover the product
Store away from other materials.

For containment

Collect spillage.

Incompatible materials

Sources of ignition
Direct sunlight

Incompatible products

Strong bases
Strong acids

SECTION 6: First aid measures

First-aid measures after eye contact

Rinse immediately with plenty of water
Remove contact lenses, if present and easy to do. Continue rinsing.
Obtain medical attention if pain, blinking or redness persists

First-aid measures after ingestion

Rinse mouth
Get medical advice/attention.
Do not induce vomiting
Obtain emergency medical attention

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.
Allow affected person to breathe fresh air
Allow the victim to rest

First-aid measures after skin contact

Wash contaminated clothing before reuse.

HIT-ICE

Kit Safety Information Sheet (SIS)

| | |
|-------------------------------------|--|
| First-aid measures general | Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person If you feel unwell, seek medical advice (show the label where possible) |
| Symptoms/effects after eye contact | Causes serious eye irritation. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Other medical advice or treatment | Treat symptomatically |

SECTION 7: Fire fighting measures

| | |
|--|--|
| Firefighting instructions | Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment |
| Protection during firefighting | Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection |
| Hazardous decomposition products in case of fire | Thermal decomposition generates : Carbon dioxide Carbon monoxide |

SECTION 8: Other information

No data available

HIT-ICE, B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 25/07/2023

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

1.1. Product identifier

| | |
|--------------|---------------------|
| Product form | Mixture |
| Product name | HIT-ICE, B |
| UFI | WJ5R-003C-FX00-5UAV |
| Product code | BU Anchor |

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

1.2.1. Relevant identified uses

| | |
|------------------------------|---|
| Main use category | Professional use |
| Use of the substance/mixture | Composite mortar component for fasteners in the construction industry |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Israel) Ltd.
6 Ravnitsky St. Ind. Zone Sgula
P.O. Box 2650
IL- 49125 Petach Tikva
Israel
T +972 3 930 4499 - F +972 3 930 2095
info@hilti.co.il

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
DE- 86916 Kaufering
Deutschland
T +49 8191 906876
anchor.hse@hilti.com

1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +972 3 930 4499 |
|------------------|--|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Organic Peroxides, Type E | H242 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |
| Full text of H- and EUH-statements: see section 16 | |

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02



GHS07



GHS09

Signal word (CLP)

Warning

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| | |
|--------------------------------|---|
| Contains | dibenzoyl peroxide |
| Hazard statements (CLP) | H242 - Heating may cause a fire. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H410 - Very toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | P210 - Keep away from heat, hot surfaces, open flames, sparks. – No smoking. P280 - Wear eye protection, protective clothing, protective gloves. P262 - Do not get in eyes, on skin, or on clothing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|------------------------------|---|
| dibenzoyl peroxide (94-36-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|-----------------------------|---|
| dibenzoyl peroxide(94-36-0) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------|---|---------|---|
| dibenzoyl peroxide | CAS-No.: 94-36-0 EC-No.: 202-327-6 EC Index-No.: 617-008-00-0 REACH-no: 01-2119511472-50 | 25 – 40 | Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |

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

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Safety Data Sheet

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | Wash contaminated clothing before reuse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--------------------------------------|
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | May cause severe irritation. |

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. Carbon dioxide. Dry powder. Foam. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Hazardous decomposition products in case of fire | Thermal decomposition generates : Carbon dioxide. Carbon monoxide. |
|--|--|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| General measures | Spilled material may present a slipping hazard. |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | Evacuate unnecessary personnel. |
| 6.1.2. For emergency responders | |
| Protective equipment | Use personal protective equipment as required. Equip cleanup crew with proper protection. |
| Emergency procedures | Ventilate area. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | Collect spillage. |
| Methods for cleaning up | This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials. |

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Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep cool. Protect from sunlight.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature

5 – 25 °C

Heat and ignition sources

Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure adequate ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

| Eye protection | | | |
|----------------|----------------------|-----------------|----------------|
| Type | Field of application | Characteristics | Standard |
| Safety glasses | Droplet | clear | EN 166, EN 170 |

8.2.2.2. Skin protection

Hand protection:

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

| Hand protection | | | | | |
|-------------------|----------------------|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,12 | | EN ISO 374 |

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Avoid contact during pregnancy/while nursing.

Other information:

Do not eat, drink or smoke during use.

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------|---------------------------|
| Physical state | Solid |
| Colour | white. |
| Appearance | Thixotropic paste. |
| Odour | characteristic. |
| Odour threshold | Not determined |
| Melting point | Not available |
| Freezing point | ≥ -25 °C |
| Boiling point | Not available |
| Flammability | Flammable |
| Explosive properties | Heating may cause a fire. |

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| | |
|---|---|
| Oxidising properties | May cause fire or explosion; strong oxidiser. |
| Explosive limits | Not applicable |
| Lower explosion limit | Not applicable |
| Upper explosion limit | Not applicable |
| Flash point | Not applicable |
| Auto-ignition temperature | Not self-igniting |
| Decomposition temperature | Not available |
| SADT | > 50 °C |
| pH | Not available |
| pH solution | Not available |
| Viscosity, kinematic | Not applicable |
| Viscosity, dynamic | 55 – 95 mPa·s (HN 570-1) |
| Solubility | Water: Not miscible |
| Partition coefficient n-octanol/water (Log Kow) | Not available |
| Vapour pressure | Not available |
| Vapour pressure at 50°C | Not available |
| Density | 1.35 g/ml DIN 51757 |
| Relative density | Not available |
| Relative vapour density at 20°C | Not applicable |
| Particle size | Not available |
| Particle size distribution | Not available |
| Particle shape | Not available |
| Particle aspect ratio | Not available |
| Particle aggregation state | Not available |
| Particle agglomeration state | Not available |
| Particle specific surface area | Not available |
| Particle dustiness | Not available |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------------|--|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |
| Skin corrosion/irritation | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Carcinogenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |

dibenzoyl peroxide (94-36-0)

| | |
|------------------------|--|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| STOT-repeated exposure | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Aspiration hazard | Not classified |
| Additional information | Based on available data, the classification criteria are not met |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

| | |
|---|-------------------------------------|
| Potential adverse human health effects and symptoms | No additional information available |
|---|-------------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Hazardous to the aquatic environment, short-term (acute) | Very toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | Very toxic to aquatic life with long lasting effects. |

dibenzoyl peroxide (94-36-0)

| | |
|----------------------|--|
| LC50 - Fish [2] | 0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA) |
| EC50 - Crustacea [1] | 0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | 0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| NOEC (acute) | 0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA) |
| NOEC chronic fish | 0.001 mg/l |

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12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

dibenzoyl peroxide (94-36-0)

| | |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment. |
|-------------------------------|--|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

dibenzoyl peroxide (94-36-0)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 3.71 |
|---|------|

| | |
|---------------------------|--|
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |
|---------------------------|--|

12.4. Mobility in soil

dibenzoyl peroxide (94-36-0)

| | |
|-----------------|--|
| Surface tension | No data available (test not performed) |
|-----------------|--|

| | |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
|--|--|

| | |
|----------------|-------------------------------------|
| Ecology - soil | Low potential for mobility in soil. |
|----------------|-------------------------------------|

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

| | |
|------------------------|-----------------------------------|
| Additional information | Avoid release to the environment. |
|------------------------|-----------------------------------|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

Product/Packaging disposal recommendations

Disposal must be done according to official regulations.

After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

European List of Waste (LoW) code

Avoid release to the environment.

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

20 01 27* - paint, inks, adhesives and resins containing dangerous substances

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HP Code

HP1 - "Explosive:" waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|--|--|---|---|
| 14.1. UN number or ID number | | | |
| UN 3108 | UN 3108 | UN 3108 | UN 3108 |
| 14.2. UN proper shipping name | | | |
| ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) | Organic peroxide type E, solid (dibenzoyl peroxide) | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) |
| Transport document description | | | |
| UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2, (D), ENVIRONMENTALLY HAZARDOUS | UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 3108 Organic peroxide type E, solid (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS | UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | |
| 5.2 | 5.2 | 5.2 | 5.2 |
| | | | |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

| | |
|--------------------------------|----------|
| Classification code (ADR) | P1 |
| Special provisions (ADR) | 122, 274 |
| Limited quantities (ADR) | 500g |
| Packing instructions (ADR) | P520 |
| Mixed packing provisions (ADR) | MP4 |
| Transport category (ADR) | 2 |
| Tunnel restriction code (ADR) | D |

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Transport by sea

| | |
|-----------------------------|----------|
| Special provisions (IMDG) | 122, 274 |
| Limited quantities (IMDG) | 500 g |
| Packing instructions (IMDG) | P520 |
| EmS-No. (Fire) | F-J |
| EmS-No. (Spillage) | S-R |
| Stowage category (IMDG) | D |
| MFAG-No | 145 |

Air transport

| | |
|---------------------------------|------|
| PCA packing instructions (IATA) | 570 |
| PCA max net quantity (IATA) | 10kg |
| CAO packing instructions (IATA) | 570 |
| Special provisions (IATA) | A20 |

Rail transport

| | |
|----------------------------|----------|
| Special provisions (RID) | 122, 274 |
| Limited quantities (RID) | 500g |
| Packing instructions (RID) | P520 |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|---|----------|----------|
| Section | Changed item | Change | Comments |
| 1.1 | UFI | Modified | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 2.2 | Hazard pictograms (CLP) | Removed | |
| 2.2 | Hazard statements (CLP) | Removed | |
| 3.2 | Composition/information on ingredients | Modified | |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |

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Abbreviations and acronyms:

| | |
|------|--|
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Other information

None.

Full text of H- and EUH-statements:

| | |
|-------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H241 | Heating may cause a fire or explosion. |
| H242 | Heating may cause a fire. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| Org. Perox. B | Organic Peroxides, Type B |
| Org. Perox. E | Organic Peroxides, Type E |
| Skin Sens. 1 | Skin sensitisation, Category 1 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|------|--------------------|
| Org. Perox. E | H242 | Expert judgement |
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

SDS EU Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Issue date: 25/07/2023

Revision date: 25/07/2023

Supersedes version of: 11/11/2022

Version: 6.8

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

1.1. Product identifier

| | |
|--------------|---------------------|
| Product form | Mixture |
| Product name | HIT-ICE, A |
| UFI | 6VVQ-V0D8-HX01-ACGC |
| Product code | BU Anchor |

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

1.2.1. Relevant identified uses

| | |
|------------------------------|---|
| Main use category | Professional use |
| Use of the substance/mixture | Composite mortar component for fasteners in the construction industry |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Israel) Ltd.
6 Ravnitsky St. Ind. Zone Sgula
P.O. Box 2650
IL- 49125 Petach Tikva
Israel
T +972 3 930 4499 - F +972 3 930 2095
info@hilti.co.il

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
DE- 86916 Kaufering
Deutschland
T +49 8191 906876
anchor.hse@hilti.com

1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +972 3 930 4499 |
|------------------|--|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |
| Full text of H- and EUH-statements: see section 16 | |

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

Warning

Contains

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol, Methyl methacrylate

Hazard statements (CLP)

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)

P280 - Wear eye protection, protective clothing, protective gloves.
P262 - Do not get in eyes, on skin, or on clothing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|--|---|
| Ethoxylated Bisphenol A Dimethacrylate (41637-38-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1,6-hexanediyl bismethacrylate (6606-59-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Methyl methacrylate (80-62-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|---|---|
| Ethoxylated Bisphenol A Dimethacrylate(41637-38-1) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| 1,6-hexanediyl bismethacrylate(6606-59-3) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol(27813-02-1) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| 1,1,1-Trimethylolpropane trimethacrylate(3290-92-4) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

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| Component | |
|--|---|
| 1,1'-(p-tolylimino)dipropen-2-ol(38668-48-3) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Methyl methacrylate(80-62-6) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|--|
| Ethoxylated Bisphenol A Dimethacrylate | CAS-No.: 41637-38-1 REACH-no: 01-2119980659-17 | 10 – 25 | Not classified |
| 1,6-hexanediyl bismethacrylate | CAS-No.: 6606-59-3 EC-No.: 229-551-7 | 5 – 10 | Aquatic Chronic 3, H412 |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol | CAS-No.: 27813-02-1 EC-No.: 248-666-3 EC Index-No.: 607-125-00-5 REACH-no: 01-2119490226-37 | 5 – 10 | Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| 1,1,1-Trimethylolpropane trimethacrylate | CAS-No.: 3290-92-4 EC-No.: 221-950-4 REACH-no: 01-2119542176-41 | 3 – 5 | Aquatic Chronic 2, H411 |
| 1,1'-(p-tolylimino)dipropen-2-ol | CAS-No.: 38668-48-3 EC-No.: 254-075-1 REACH-no: 01-2119980937-17 | 0.1 – 1 | Acute Tox. 2 (Oral), H300 (ATE=25 mg/kg bodyweight) Eye Irrit. 2, H319 Aquatic Chronic 3, H412 |
| Methyl methacrylate substance with a Community workplace exposure limit | CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 | 0 – 0.5 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|--------------------------------|---|--------------------------------|
| 1,6-hexanediyl bismethacrylate | CAS-No.: 6606-59-3 EC-No.: 229-551-7 | (10 ≤C < 100) STOT SE 3, H335 |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | Wash contaminated clothing before reuse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--------------------------------------|
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | May cause severe irritation. |

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. Carbon dioxide. Dry powder. Foam. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Hazardous decomposition products in case of fire | Thermal decomposition generates : Carbon dioxide. Carbon monoxide. |
|--|--|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| General measures | Spilled material may present a slipping hazard. |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | Evacuate unnecessary personnel. |
| 6.1.2. For emergency responders | |
| Protective equipment | Use personal protective equipment as required. Equip cleanup crew with proper protection. |
| Emergency procedures | Ventilate area. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | Collect spillage. |
| Methods for cleaning up | This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials. |

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Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep cool. Protect from sunlight.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature

5 – 25 °C

Heat and ignition sources

Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.1.1. National occupational exposure and biological limit values

| HIT-ICE, A | |
|--|----------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Methyl methacrylate |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL [ppm] | 100 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2009/161/EU |
| Methyl methacrylate (80-62-6) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Methyl methacrylate |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL [ppm] | 100 ppm |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure adequate ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

| Eye protection | | | |
|----------------|----------------------|-----------------|----------------|
| Type | Field of application | Characteristics | Standard |
| Safety glasses | Droplet | clear | EN 166, EN 170 |

8.2.2.2. Skin protection

Hand protection:

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

| Hand protection | | | | | |
|-------------------|----------------------|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,12 | | EN ISO 374 |

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Avoid contact during pregnancy/while nursing.

Other information:

Do not eat, drink or smoke during use.

No additional information available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Physical state | Solid |
| Colour | Grey. |
| Appearance | Thixotropic paste. |
| Odour | characteristic. |
| Odour threshold | Not determined |
| Melting point | Not available |
| Freezing point | Not available |
| Boiling point | Not available |
| Flammability | Flammable |
| Explosive properties | Product is not explosive. |
| Explosive limits | Not applicable |
| Lower explosion limit | Not applicable |
| Upper explosion limit | Not applicable |
| Flash point | Not applicable |
| Auto-ignition temperature | Not self-igniting |
| Decomposition temperature | Not available |
| pH | Not available |
| pH solution | Not available |
| Viscosity, kinematic | 32544.379 mm ² /s |
| Viscosity, dynamic | 55 Pa·s HN-0333 |
| Solubility | Water: Not miscible |
| Partition coefficient n-octanol/water (Log Kow) | Not available |
| Vapour pressure | Not available |
| Vapour pressure at 50°C | Not available |
| Density | 1.69 g/ml DIN 51757 |
| Relative density | Not available |
| Relative vapour density at 20°C | Not applicable |
| Particle size | Not available |
| Particle size distribution | Not available |
| Particle shape | Not available |
| Particle aspect ratio | Not available |
| Particle aggregation state | Not available |
| Particle agglomeration state | Not available |
| Particle specific surface area | Not available |
| Particle dustiness | Not available |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|----------------|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |

Ethoxylated Bisphenol A Dimethacrylate (41637-38-1)

| | |
|-----------------|--------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

1,6-hexanediyl bismethacrylate (6606-59-3)

| | |
|---------------|---------------------------------------|
| LD50 oral rat | > 15000 mg/kg (Rat; Literature study) |
|---------------|---------------------------------------|

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)

| | |
|--------------------|--|
| LD50 oral rat | > 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; ≥ 2000 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) |

1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)

| | |
|-----------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 3000 mg/kg |

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

| | |
|-----------------|--------------|
| LD50 oral rat | 25 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

Methyl methacrylate (80-62-6)

| | |
|-----------------------|--|
| LD50 oral rat | > 6000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 7900 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Weight of evidence; 8400 mg/kg bodyweight; Rat; Weight of evidence) |
| LD50 dermal rabbit | > 7550 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; > 5000 mg/kg bodyweight; Rabbit; Experimental value) |
| LC50 Inhalation - Rat | 27.5 mg/l/4h (Rat; Literature study) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Carcinogenicity | Not classified |

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| | |
|------------------------|--|
| Additional information | Based on available data, the classification criteria are not met |
| Reproductive toxicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| STOT-single exposure | Not classified |
| Additional information | Based on available data, the classification criteria are not met |

| Methyl methacrylate (80-62-6) | |
|-------------------------------|--|
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Aspiration hazard | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| HIT-ICE, A | |
| Viscosity, kinematic | 32544.379 mm²/s |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

| | |
|---|-------------------------------------|
| Potential adverse human health effects and symptoms | No additional information available |
|---|-------------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Hazardous to the aquatic environment, short-term (acute) | Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Harmful to aquatic life with long lasting effects. |

| Ethoxylated Bisphenol A Dimethacrylate (41637-38-1) | |
|--|--|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| NOEC (acute) | > 100 mg/l |
| 1,6-hexanediyl bismethacrylate (6606-59-3) | |
| LC50 - Fish [1] | 4.5 mg/l (96 h; Brachydanio rerio) |
| EC50 - Crustacea [1] | 11.9 mg/l (48 h, Daphnia magna, QSAR) |
| EC50 72h - Algae [1] | 5.33 mg/l (Algae, QSAR) |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| LC50 - Fish [1] | 493 mg/l (48 h; Leuciscus idus; GLP) |
| EC50 - Crustacea [1] | > 143 mg/l (48 h; Daphnia magna; GLP) |
| ErC50 algae | 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| Threshold limit - Algae [1] | > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) |
| Threshold limit - Algae [2] | > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) |

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| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
|--|------------|
| LC50 - Fish [1] | 2 mg/l |
| ErC50 algae | 3.88 mg/l |
| NOEC chronic fish | 0.138 mg/l |
| NOEC chronic crustacea | 0.177 mg/l |

| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
|---|-----------|
| LC50 - Fish [1] | ≈ 17 mg/l |
| LC50 - Other aquatic organisms [1] | 245 mg/l |
| EC50 - Crustacea [1] | 28.8 mg/l |
| NOEC (acute) | 57.8 mg/l |

| Methyl methacrylate (80-62-6) | |
|---|---|
| LC50 - Fish [1] | 130 mg/l (96 h; Pimephales promelas; Lethal) |
| LC50 - Fish [2] | 191 mg/l (96 h; Lepomis macrochirus) |
| EC50 - Crustacea [1] | 69 mg/l (48 h; Daphnia magna; GLP) |
| EC50 - Crustacea [2] | 502 mg/l (24 h; Daphnia magna) |
| EC50 72h - Algae [1] | > 110 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) |
| TLM - Fish [1] | 159 mg/l (96 h; Pimephales promelas) |
| Threshold limit - Other aquatic organisms [1] | 100 mg/l (16 h; Pseudomonas putida) |
| Threshold limit - Algae [1] | 37 mg/l (168 h; Scenedesmus quadricauda; Toxicity test) |
| Threshold limit - Algae [2] | 120 mg/l (192 h; Microcystis aeruginosa) |

12.2. Persistence and degradability

| HIT-ICE, A | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
|--|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| Methyl methacrylate (80-62-6) | |
|---------------------------------|------------------------------------|
| Biochemical oxygen demand (BOD) | 0.14 g O ₂ /g substance |
| ThOD | 1.9 g O ₂ /g substance |

12.3. Bioaccumulative potential

| HIT-ICE, A | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Ethoxylated Bisphenol A Dimethacrylate (41637-38-1) | |
|---|--|
| Bioconcentration factor (BCF REACH) | 52.13 |
| Partition coefficient n-octanol/water (Log Pow) | 3.43 – 5.62 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |

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| | |
|---|---|
| Ethoxylated Bisphenol A Dimethacrylate (41637-38-1) | |
| Partition coefficient n-octanol/water (Log Kow) | 5.3 |
| 1,6-hexanediyl bismethacrylate (6606-59-3) | |
| BCF - Fish [1] | 228.6 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 4.08 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| BCF - Fish [1] | ≤ 100 |
| BCF - Fish [2] | 3.2 Quantitative structure-activity relationship (QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 0.97 (OECD 102 method) |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
| BCF - Fish [2] | 366 l/kg |
| Partition coefficient n-octanol/water (Log Pow) | 3.53 |
| Partition coefficient n-octanol/water (Log Kow) | 4.39 |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
| Partition coefficient n-octanol/water (Log Kow) | 2.1 |
| Methyl methacrylate (80-62-6) | |
| BCF - Fish [1] | 2.97 – 3.5 (Pisces) |
| Partition coefficient n-octanol/water (Log Pow) | 1.32 – 1.38 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C) |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |
| 12.4. Mobility in soil | |
| Ethoxylated Bisphenol A Dimethacrylate (41637-38-1) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.56 (2.56 – 3.88) |
| Ecology - soil | Low potential for adsorption in soil. |
| 1,6-hexanediyl bismethacrylate (6606-59-3) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.7 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Low potential for adsorption in soil. |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.9 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| Methyl methacrylate (80-62-6) | |
| Surface tension | 61 mN/m (OECD 115: Surface Tension of Aqueous Solutions) |

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| Methyl methacrylate (80-62-6) | |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.94 – 1.86 (log Koc, EPA OTS 796.2750: Sediment and Soil Adsorption Isotherm, Experimental value, GLP) |
| Ecology - soil | Highly mobile in soil. |

12.5. Results of PBT and vPvB assessment

| HIT-ICE, A |
|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional legislation (waste) | Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | Avoid release to the environment. |
| European List of Waste (LoW) code | 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances |
| HP Code | 20 01 27* - paint, inks, adhesives and resins containing dangerous substances HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|------------------------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR | IMDG | IATA | RID |
|---|----------------|----------------|----------------|
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | |
|--|---|
| Reference code | Applicable on |
| 3(a) | Methyl methacrylate |
| 3(b) | 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol ; Methyl methacrylate |
| 3(c) | 1,6-hexanediyl bismethacrylate ; 1,1,1-Trimethylolpropane trimethacrylate |
| 40. | Methyl methacrylate |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |

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| Abbreviations and acronyms: | |
|-----------------------------|---|
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Other information: None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 2 (Oral) | Acute toxicity (oral), Category 2 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| H225 | Highly flammable liquid and vapour. |
| H300 | Fatal if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|------|--------------------|
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.