

HUS4-MAX

Safety information for 2-Component-products

Issue date: 22/06/2022 Revision date: 22/06/2022 Version: 1.0

SECTION 1: Kit identification

1.1 Product identifier

Product name HUS4-MAX

HUSA-MAX 10s HUSA-MAX 10

Product code BU Anchor

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

Hilti (Philippines) Inc.
2256 Pasong Tamo Extension
Edsa, Brgy. Magallanes
1224 Makati City - Philippinen
T +632 784 7100 - F +63 2 784 7100
customerservice.ph@hilti.com

SECTION 2: General information

Restrictions on use For professional use only

Storage temperature : -20 - +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:

Classification of the Product

Classification according to the United Nations GHS

 Org. Perox. F
 H242

 Acute Tox. 5 (Oral)
 H303

 Eye Irrit. 2
 H319

 Skin Sens. 1
 H317

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)







GHS02

GHS07

GHS09

Signal word (GHS UN) Warning

Hazardous ingredients 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (A); 2-Propenoic acid, 2-methyl-,

1,4-butanediyl ester (A); 4-tert-butylpyrocatechol (A); dibenzoyl peroxide (B)

Hazard statements (GHS UN) 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 (GHS UN) P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

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

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Safety information for 2-Component-products

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.

Additional information

Foil capsule contains:

Component A: Urethane methacrylate resin Component B: Dibenzoyl peroxide, phlegmatized



| Name | General description | Quantity | Unit | Classification according to the United Nations GHS |
|-------------|---------------------|----------|--------------|---|
| HUS4-MAX, A | | 1 | pcs (pieces) | Acute Tox. 5 (Oral), H303 Skin Sens. 1, H317 |
| HUS4-MAX, B | | 1 | pcs (pieces) | Org. Perox. F, H242 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

SECTION 4: General advice

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 container tightly closed. Keep cool. Protect from sunlight.

Avoid contact with : Air

Expiry date: See date printed on box and capsule. Do not use if expiry date has been

exceeded!

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Precautions for safe handling Wear personal protective equipment

Avoid contact with skin and eyes Avoid breathing dust, vapours.

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

Prevent the build-up of electrostatic charge

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Methods for cleaning up Stop leak without risks if possible

Use non-sparking tools

Absorb and/or contain spill with inert material, then place in suitable container.

This material and its container must be disposed of in a safe way, and as per local legislation

For containment Collect spillage.

Incompatible materials Strong acids

Strong bases
Activator
reducing agents

solid salts and solutions containing heavy metals

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Safety information for 2-Component-products

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.

Wash with plenty of water/...

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

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)

Symptoms/effects after eye contact

May cause severe irritation

Symptoms/effects after skin contact

May cause an allergic skin reaction.

SECTION 7: Fire fighting measures

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

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Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Issue date: 22/06/2022 Revision date: 22/06/2022 : Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture
Trade name HUS4-MAX, B

UN-No. (ADR) 3109
Product code BU Anchor

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture Adhesive anchor capsule for anchor fastening in concrete

Recommended use For professional use only

1.4. Supplier's details

Supplier Department issuing data specification sheet

Hilti (Philippines) Inc. Hilti Entwicklungsgesellschaft mbH

2256 Pasong Tamo Extension Hiltistraße 6

Edsa, Brgy. Magallanes 86916 Kaufering - Deutschland

1224 Makati City - Philippinen T +49 8191 906876

T +632 784 7100 - F +63 2 784 7100

1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+632 784 7100

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Organic Peroxides, Type F H242 Expert judgment
Serious eye damage/eye irritation, Category 2 H319 Calculation method
Skin sensitisation, Category 1 H317 Calculation method
Hazardous to the aquatic environment – Acute H400 Calculation method

Hazard, Category 1

Hazardous to the aquatic environment – Chronic H410 Calculation method

Hazard, Category 1

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)

Signal word (GHS UN)

Hazardous ingredients







GHS07

GHS02 Warning

dibenzoyl peroxide

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Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Hazard statements (GHS UN) 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 (GHS UN) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

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 water.

P337+P313 - If eye irritation persists: Get medical advice, medical attention. P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|--------------------|--------------------|---------|---|
| dibenzoyl peroxide | (CAS-No.) 94-36-0 | 10 – 25 | Organic Peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 (M=10) Hazardous to the aquatic environment – Chronic Hazard, Category 1, H410 (M=10) |

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary 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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact May cause an allergic skin reaction.

Symptoms/effects after eye contact Causes serious eye irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Alcohol-resistant foam.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard May form flammable vapour-air mixtures. May decompose violently at elevated

temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with alkalis or acids may cause dangerous decomposition. The products of combustion or self-accelerating decomposition may be toxic by inhalation. Will float and can be reignited on water surface.

Explosion hazard Vapours may form explosive mixture with air.

Reactivity in case of fire Decomposition products may be a hazard to health.

Hazardous decomposition products in case of Formation of toxic gases is possible during heating or in case of fire. Corrosive vapours.

Thermal decomposition can lead to the release of irritating gases and vapours.

5.3. Special protective actions for fire-fighters

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

Protective equipment Wear recommended personal protective equipment.

Emergency procedures Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition.

Explosive vapour/air mixtures may be formed.

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 materials for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

Stop leak without risks if possible. Use non-sparking tools. Absorb and/or contain spill with

inert material, then place in suitable container. This material and its container must be

disposed of in a safe way, and as per local legislation.

Other information Dispose of materials or solid residues at an authorized site.

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. Avoid breathing

dust, vapours. 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. Prevent the build-up of electrostatic charge. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

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according to the United Nations GHS (Rev. 4, 2011)

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

Storage conditions Keep container tightly closed. Keep cool. Protect from sunlight. Avoid contact with : Air.

Store away from other materials. Expiry date: See date printed on box and capsule. Do not

use if expiry date has been exceeded!.

Incompatible materials Strong acids. Strong bases. Activator. reducing agents. solid salts and solutions containing

heavy metals.

Heat and ignition sources Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Storage temperature -20 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.

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.

8.3. Individual protection measures, such as personal protective equipment (PPE)

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.

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

Eye protection Wear security glasses which protect from splashes

| Туре | Field of application | Characteristics | Standard |
|----------------|----------------------|-----------------|----------------|
| Safety glasses | Droplet | clear | EN 166, EN 170 |

Skin and body protection Long sleeved protective clothing

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Liquid Colour white.

Odour characteristic.
Odour threshold Not available
Melting point Not available

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Not available Freezing point Not available Boiling point Flammability (solid, gas) Not available Explosive limits Not available Lower explosive limit (LEL) Not available Upper explosive limit (UEL) Not available Flash point Not available Not available Auto-ignition temperature Decomposition temperature Not available pΗ

pH solution Not available 0 mm²/s Viscosity, kinematic (calculated value) (40 °C) Partition coefficient n-octanol/water (Log Kow) Not available 23.4 hPa Vapour pressure Vapour pressure at 50 °C Not available Density 1.03 g/cm³ Not available Relative density Relative vapour density at 20 °C Not available Solubility insoluble in water.

Viscosity, dynamic 200 mPa.s

Explosive properties Product is not explosive

Particle size Not applicable
Particle size distribution Not applicable
Particle shape Not applicable
Particle aspect ratio Not applicable
Particle specific surface area Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

SADT 70 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions. Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Can form explosive mixtures with air.

10.4. Conditions to avoid

May decompose violently at elevated temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with alkalis or acids may cause dangerous decomposition. The products of combustion or self-accelerating decomposition may be toxic by inhalation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong acids. Strong bases. Activator. reducing agents. solid salts and solutions containing heavy metals.

10.6. Hazardous decomposition products

Toxic and corrosive gases are released. Toxic and corrosive fumes are released.

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according to the United Nations GHS (Rev. 4, 2011)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Skin corrosion/irritation Not classified

pH: ≈ 7

Serious eye damage/irritation Causes serious eye irritation.

pH: ≈ 7

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

Aspiration hazard

Not classified

HUS4-MAX, B
Viscosity, kinematic 0 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

Classification procedure (Hazardous to the aquatic environment, short-term (acute))

Hazardous to the aquatic environment, long-

term (chronic)

Classification procedure (Hazardous to the aquatic environment, long-term (chronic))

Very toxic to aquatic life.

Calculation method

Very toxic to aquatic life with long lasting effects.

Calculation method

| 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 |

12.2. Persistence and degradability

| HUS4-MAX, B | |
|-------------------------------|--|
| Persistence and degradability | No additional information available |
| | |
| | |
| dibenzoyl peroxide (94-36-0) | |
| Persistence and degradability | Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment. |

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12.3. Bioaccumulative potential

| LUICAMAY | |
|---|--|
| HUS4-MAX, B | |
| Bioaccumulative potential | No additional information available |
| | |
| | |
| dibenzeul perevide (04.26.0) | |
| dibenzoyl peroxide (94-36-0) | , |
| Partition coefficient n-octanol/water (Log Kow) | 3.71 |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |

12.4. Mobility in soil

| HUS4-MAX, B | |
|--------------------------------------|--|
| Mobility in soil | No additional information available |
| | |
| dibenzoyl peroxide (94-36-0) | |
| Surface tension | No data available (test not performed) |
| Organic Carbon Normalized Adsorption | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage |
| Coefficient (Log Koc) | Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil | Low potential for mobility in soil. |

12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

SECTION 13: Disposal considerations

13.1. Disposal 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

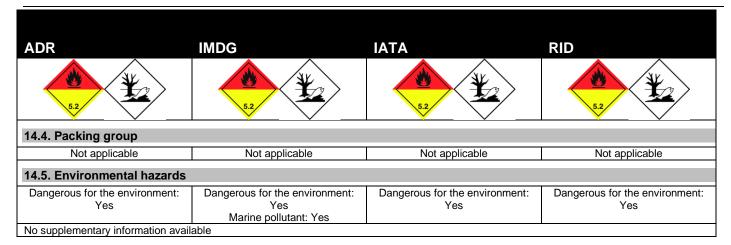
| ADR | IMDG | IATA | RID | |
|---|--|---|--|--|
| 14.1. UN number or ID number | r | | | |
| UN 3109 | UN 3109 | UN 3109 | UN 3109 | |
| 14.2. UN proper shipping nam | ne | | | |
| ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide) Transport document description | ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide) | Organic peroxide type f, liquid (dibenzoyl peroxide) | ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide) | |
| UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide), 5.2, (D), ENVIRONMENTALLY HAZARDOUS | UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide), 5.2, MARINE POLLUTANT/ENVIRONMENTAL LY HAZARDOUS | UN 3109 Organic peroxide type f, liquid (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS | UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS | |
| 14.3. Transport hazard class(es) | | | | |
| 5.2 | 5.2 | 5.2 | 5.2 | |

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14.6. Special precautions for user

Overland transport

Classification code (ADR) P1 Special provisions (ADR) 122, 274 Limited quantities (ADR) 125ml Packing instructions (ADR) P520, IBC520 Mixed packing provisions (ADR) MP4

Transport category (ADR) 2

Orange plates

539 3109

D Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) 122, 274 Packing instructions (IMDG) P520 F-J EmS-No. (Fire) EmS-No. (Spillage) S-R Stowage category (IMDG) D Stowage and handling (IMDG)

Segregation (IMDG) SG35, SG36, SG72

Air transport

PCA packing instructions (IATA) 570 PCA max net quantity (IATA) 10L CAO packing instructions (IATA) 570

Special provisions (IATA) A20, A150, A802

Rail transport

Special provisions (RID) 122, 274 Packing instructions (RID) P520, IBC520

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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according to the United Nations GHS (Rev. 4, 2011)

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

SDS Major/Minor None
Issue date 22/06/2022
Revision date 22/06/2022

Abbreviations and acronyms CAS-No. - Chemical Abstract Service number

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 BLV - Biological limit value

BOD - Biochemical oxygen demand (BOD)

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

COD - Chemical oxygen demand (COD)
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
EC50 - Median effective concentration
EC-No. - European Community number
ED - Endocrine disrupting properties

EN - European Standard

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

N.O.S. - Not Otherwise Specified

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

OEL - Occupational Exposure Limit
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

SDS - Safety Data Sheet

ThOD - Theoretical oxygen demand (ThOD)

TRGS - Technical Rules for Hazardous Substances

VOC - Volatile Organic Compounds

TLM - Median Tolerance Limit

vPvB - Very Persistent and Very Bioaccumulative

WGK - Water Hazard Class

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Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Other information None.

| Full text of H-statements: | |
|----------------------------|--|
| 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 |

SDS_UN_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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Safety Data Sheet

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SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture
Trade name HUS4-MAX, A
Product code BU Anchor

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture Adhesive anchor capsule for anchor fastening in concrete

Recommended use For professional use only

1.4. Supplier's details

Supplier Department issuing data specification sheet

Hilti (Philippines) Inc. Hilti Entwicklungsgesellschaft mbH

2256 Pasong Tamo Extension Hiltistraße 6

Edsa, Brgy. Magallanes 86916 Kaufering - Deutschland

1224 Makati City - Philippinen T +49 8191 906876

T +632 784 7100 - F +63 2 784 7100

1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+632 784 7100

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 5 H303 Calculation method Skin sensitisation, Category 1 H317 Calculation method

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)



GHS07

Signal word (GHS UN) Warnin

Hazardous ingredients 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol, 2-Propenoic acid, 2-methyl-,

1,4-butanediyl ester, 1,1'-(p-tolylimino)dipropan-2-ol, 4-tert-butylpyrocatechol

Hazard statements (GHS UN) H317 - May cause an allergic skin reaction

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Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Precautionary statements (GHS UN) 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.

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

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

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

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|----------------------|---------|---|
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester | (CAS-No.) 2082-81-7 | 60 – 80 | Acute toxicity (oral) Not classified Skin sensitisation, category 1B, H317 |
| 1,1'-(p-tolylimino)dipropan-2-ol | (CAS-No.) 38668-48-3 | 1 – 2.5 | Acute toxicity (oral), Category 2, H300 Serious eye damage/eye irritation, Category 2A, H319 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402 Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412 |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol | (CAS-No.) 27813-02-1 | 0.1 – 1 | Flammable liquids Not classified Acute toxicity (oral) Not classified Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 |
| 4-tert-butylpyrocatechol | (CAS-No.) 98-29-3 | 0.1 – 1 | Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 3, H311 Skin corrosion/irritation, Category 1B, H314 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411 |

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary 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.

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First-aid measures after ingestion Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency

medical attention.

4.2. Most important symptoms/effects, 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 immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable 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. Specific hazards arising from the chemical

Hazardous decomposition products in case of

Oi

 $Thermal\ decomposition\ generates: Carbon\ dioxide.\ Carbon\ monoxide.$

5.3. Special protective actions for fire-fighters

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 materials 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.

Other information Dispose of materials or solid residues at an authorized site.

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.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight. Expiry date: See date printed on box and capsule. Do not

use if expiry date has been exceeded!.

Incompatible products

Incompatible materials

Strong bases. Strong acids.

Sources of ignition. Direct sunlight.

Keep away from heat and direct sunlight.

Storage temperature -20 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

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.

8.3. Individual protection measures, such as personal protective equipment (PPE)

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.

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

Eye protection Wear security glasses which protect from splashes

| Туре | Field of application | Characteristics | Standard |
|----------------|----------------------|-----------------|----------------|
| Safety glasses | Droplet | clear | EN 166, EN 170 |

Skin and body protection Long sleeved protective clothing

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Liquid

Colour light yellow.

Odour characteristic.

Odour threshold Not available

Melting point Not available

Freezing point Not available

Boiling point Not available

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Flammability (solid, gas) Not available Explosive limits Not available Lower explosive limit (LEL) Not available Upper explosive limit (UEL) Not available Flash point Not available Not available Auto-ignition temperature Decomposition temperature Not available 5.7 рΗ Not available pH solution Viscosity, kinematic (calculated value) (40 °C) 160.55 mm²/s Partition coefficient n-octanol/water (Log Kow) Not available Not available Vapour pressure Vapour pressure at 50 °C Not available 1.09 g/cm³ Density Relative density Not available Not available Relative vapour density at 20 °C Not available Solubility Viscosity, dynamic 175 mPa.s Particle size Not applicable Particle size distribution Not applicable Not applicable Particle shape Particle aspect ratio Not applicable Particle specific surface area Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

SADT

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 toxicological effects

Acute toxicity (oral) May be harmful if swallowed.

Acute toxicity (dermal) Not classified

Acute toxicity (inhalation) Not classified

ATE UN (oral) 2095.382 mg/kg bodyweight

| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7) | | |
|--|---|--|
| LD50 oral rat | 10066 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 | |
| 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) | |
| 4-tert-butylpyrocatechol (98-29-3) | | |
| LD50 oral rat | 815 mg/kg bodyweight (Rat; Lethal; ECHA) | |
| LD50 oral | 2820 mg/kg | |
| LD50 dermal rat | 1331 mg/kg bodyweight (Rat;Lethal; ECHA) | |
| LD50 dermal | 630 mg/kg | |

Skin corrosion/irritation Not classified

pH: 5.7

Serious eye damage/irritation Not classified

pH: 5.7

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
Carcinogenicity
Not classified
Reproductive toxicity
Not classified
STOT-single exposure
Not classified
STOT-repeated exposure
Not classified

Aspiration hazard Not classified

HUS4-MAX, A

Viscosity, kinematic 160.55 mm²/s

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)

Not classified

| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7) | | |
|---|-----------|--|
| LC50 - Other aquatic organisms [1] | 9.79 mg/l | |
| NOEC (acute) | 7.51 mg/l | |
| NOEC (chronic) | 20 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 | |

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| 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) | |
| 4-tert-butylpyrocatechol (98-29-3) | | |
| LC50 - Fish [1] | 0.12 mg/l (96 h, Danio rerio, Lethal, ECHA) | |
| ErC50 algae | 10.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, | |
| | Static system, Fresh water, Experimental value, GLP) | |

12.2. Persistence and degradability

| HUS4-MAX, A | | |
|---|-------------------------------------|--|
| Persistence and degradability | No additional information available | |
| • | | |
| | | |
| 2-Propenoic acid, 2-methyl-, 1,4-butane | diyl ester (2082-81-7) | |
| Not rapidly degradable | | |
| Biodegradation | 84 % | |
| 2-Propenoic acid, 2-methyl-, monoester | with 1,2-propanediol (27813-02-1) | |
| Not rapidly degradable | | |
| Persistence and degradability | Readily biodegradable in water. | |
| | , · | |
| 4-tert-butylpyrocatechol (98-29-3) | | |
| Not rapidly degradable | | |
| Persistence and degradability | Not readily biodegradable in water. | |
| , | | |
| ThOD | 2.4 g O ₂ /g substance | |

12.3. Bioaccumulative potential

| THO A MAY A | | |
|--|--|--|
| HUS4-MAX, A | | |
| Bioaccumulative potential | No additional information available | |
| | | |
| | | |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl este | r (2082-81-7) | |
| Partition coefficient n-octanol/water (Log Kow) | 3.1 | |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | | |
| Partition coefficient n-octanol/water (Log Pow) 2.1 | | |
| 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) | |
| DCF - FISH [2] | 3.2 Quantitative structure-activity relationship (QSAN) | |
| Partition coefficient n-octanol/water (Log Kow) | 0.97 (OECD 102 method) | |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). | |
| 4-tert-butylpyrocatechol (98-29-3) | | |
| Partition coefficient n-octanol/water (Log Kow) | 1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask | |
| | Method, 25 °C) | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | |

12.4. Mobility in soil

| HUS4-MAX, A | | |
|--|-------------------------------------|--|
| Mobility in soil | No additional information available | |
| | | |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | | |
| Organic Carbon Normalized Adsorption | 1.9 (log Koc, Calculated value) | |
| Coefficient (Log Koc) | | |
| Ecology - soil | Highly mobile in soil. | |

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| 4-tert-butylpyrocatechol (98-29-3) | | |
|--------------------------------------|--|--|
| Surface tension | No data available (test not performed) | |
| Organic Carbon Normalized Adsorption | 1.37 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on | |
| Coefficient (Log Koc) | Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, | |
| | GLP) | |
| Ecology - soil | Highly mobile in soil. | |

12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

SECTION 13: Disposal considerations

13.1. Disposal 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

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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID | |
|--|----------------------------------|---------------|---------------|--|
| 14.1. UN number or ID number | er | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.2. UN proper shipping nan | 14.2. UN proper shipping name | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.3. Transport hazard class(| 14.3. Transport hazard class(es) | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

SDS Major/Minor None
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Abbreviations and acronyms

CAS-No. - Chemical Abstract Service number

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

BLV - Biological limit value

BOD - Biochemical oxygen demand (BOD)

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

COD - Chemical oxygen demand (COD)

DMEL - Derived Minimal Effect level

DNEL - Derived-No Effect Level

EC50 - Median effective concentration

EC-No. - European Community number

ED - Endocrine disrupting properties

EN - European Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

N.O.S. - Not Otherwise Specified

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

OEL - Occupational Exposure Limit

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

SDS - Safety Data Sheet

ThOD - Theoretical oxygen demand (ThOD)

TRGS - Technical Rules for Hazardous Substances

VOC - Volatile Organic Compounds

TLM - Median Tolerance Limit

vPvB - Very Persistent and Very Bioaccumulative

WGK - Water Hazard Class

None.

Other information

| Full text of H-statements: | | |
|----------------------------|---|--|
| H300 | Fatal if swallowed | |
| H302 | Harmful if swallowed | |
| H303 | May be harmful if swallowed | |
| H311 | Toxic in contact with skin | |
| H314 | Causes severe skin burns and eye damage | |
| H317 | May cause an allergic skin reaction | |

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| H319 | Causes serious eye irritation |
|------|---|
| H400 | Very toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

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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.

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