

HIT-HY 200-A V3

Safety information for 2-Component-products

Issue date: 13/04/2023 Revision date: 13/04/2023 Version: 1.0

SECTION 1: Kit identification

1.1 Product identifier

Product name HIT-HY 200-A V3



Product code BU Anchor

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

Hilti (South Africa) (Pty) Ltd.
2 Tugela Lane, Waterfall Logistics Precinct
Corner Bridal Veil Road and R101
2090 Midrand - South Africa
T +2711 237300 - F +2711 2373111
Customercare.za@hilti.com

SECTION 2: General information

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:

Classification of the Product

Classification according to the United Nations GHS

 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)





GHS07

GHS09

Signal word (GHS UN)

Hazardous ingredients

Hazard statements (GHS UN)

Precautionary statements (GHS UN)

Warning

methacrylates, dibenzoyl peroxide
H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

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

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.

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HIT-HY 200-A V3

Safety information for 2-Component-products

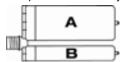
P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Additional information

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	Classification according to the United Nations GHS
HIT-HY 200-A V3, B		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HIT-HY 200-A V3, A		1	pcs (pieces)	Skin Sens. 1, H317

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 cool. Protect from sunlight. Wear personal protective equipment Precautions for safe handling

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

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HIT-HY 200-A V3

Safety information for 2-Component-products

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

Symptoms/effects after skin contact

Causes serious eye irritation.

May cause an allergic skin reaction.

SECTION 7: Fire fighting measures

Firefighting instructions

Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire

Thermal decomposition generates:

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

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. 9, 2021)

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SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture

Product name HIT-HY 200-A V3, 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 Composite mortar component for fasteners in the construction industry

Recommended uses and restrictions For professional use only

1.4. Supplier's details

Hilti (South Africa) (Pty) Ltd.

2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and

R101

ZA-2090 Midrand South Africa

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Department issuing data specification sheet

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DE-86916 Kaufering

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1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

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)



Signal word (GHS UN)

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoester Hazardous ingredients

with 1,2-propanediol

Hazard statements (GHS UN)

H317 - May cause an allergic skin reaction 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.

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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	10 – 25	Acute toxicity (oral) Not classified Skin sensitisation, category 1B, H317
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	CAS-No.: 27813-02-1	5 - 8	Flammable liquids Not classified Acute toxicity (oral) Not classified Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No.: 38668-48-3	0,1 – 1	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

Full text of H-statements: see section 16

SECTION 4: 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/effects, acute and delayed

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

Symptoms/effects after eye contact May cause severe irritation.

Potential adverse human health effects and No additional information available.

symptoms

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

No additional information available

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 fire 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

Hygiene measures

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. 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

Incompatible products

Incompatible materials

Heat and ignition sources

Keep cool. Protect from sunlight.

Strong bases. Strong acids.

Sources of ignition. Direct sunlight.

Keep away from heat and direct sunlight.

Storage temperature 5-25 °C

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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 Not applicable.

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)

Materials for protective clothing

Long sleeved protective clothing

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

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 Solid

Appearance Thixotropic paste

Colour Blue.

Odour characteristic. Odour threshold Not determined Melting point Not available Freezing point Not available 240 °C Boiling point Flammability Flammable Lower explosion limit Not applicable Upper explosion limit Not applicable

Flash point > 109 °C DIN EN ISO 1523

Auto-ignition temperature Not self-igniting Not available Decomposition temperature Not available pΗ pH solution Not available Viscosity, kinematic (calculated value) (40 °C) Not applicable Not available Partition coefficient n-octanol/water (Log Kow) Vapour pressure Not available Vapour pressure at 50°C Not available Density 1,8 g/ml AW 4.3.23

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Relative density
Relative vapour density at 20°C
Solubility
Viscosity, dynamic

Not available
Not applicable
Water: Not miscible
35 – 65 Pa·s (HN-0333)

Particle size Not available

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

Explosive properties Product is not explosive

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

LD50 oral rat	25 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
LD50 oral rat	10066 mg/kg	
LD50 dermal rat	> 3000 mg/kg	
2-Propenoic acid 2-methyl- monoester with 1 2-propagedial (27813-02-1)		

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)

Skin corrosion/irritation Not classified Serious eye damage/irritation Not classified

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Not classified

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STOT-repeated exposure Not classified Aspiration hazard

Potential adverse human health effects and

symptoms

Not classified

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)

Not classified

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

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

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)	

12.2. Persistence and degradability

HIT-HY 200-A V3, A		
Persistence and degradability	Not established.	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl 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		

12.3. Bioaccumulative potential

Persistence and degradability

HIT-HY 200-A V3, A		
Bioaccumulative potential Not established.		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Partition coefficient n-octanol/water (Log Pow)	2,1	

Readily biodegradable in water.

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according to the United Nations GHS (Rev. 9, 2021)

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Partition coefficient n-octanol/water (Log Kow)	3,1	
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)	
Partition coefficient n-octanol/water (Log Kow)	0,97 (OECD 102 method)	
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).	

12.4. Mobility in soil

·=····································		
HIT-HY 200-A V3, 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 Coefficient (Log Koc)	1,9 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available
Other information

Avoid release to the environment.

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	14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated		
14.2. UN proper shipping nam	e				
Not regulated	Not regulated	Not regulated	Not regulated		
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	14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated		

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ADR	IMDG	IATA	RID
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

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

Issue date 13/04/2023
Revision date 13/04/2023

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

SDS - Safety Data Sheet

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	vPvB - Very Persistent and Very Bioaccumulative
Other information	None.

Full text of H-statements:	
H300	Fatal if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H412	Harmful 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

according to the United Nations GHS (Rev. 9, 2021)

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SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture

Product name HIT-HY 200-A V3, B

UN-No. (ADR) 3077
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 Composite mortar component for fasteners in the construction industry

Recommended uses and restrictions For professional use only

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd.

2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and

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1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 2

Skin sensitisation, Category 1

Hazardous to the aquatic environment – Acute Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

H410

Calculation method

Calculation method

Calculation method

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)





Signal word (GHS UN) Hazardous ingredients

Hazard statements (GHS UN)

Warning dibenzoyl peroxide

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

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Precautionary statements (GHS UN) P280 - Wear eye protection, protective clothing, protective gloves.

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

 ${\sf P305+P351+P338-IF\ IN\ EYES:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove}$

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
dibenzoyl peroxide	CAS-No.: 94-36-0	10 - 15	Organic Peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2, 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. 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/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

No additional information available

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Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

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 fire 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditionsKeep cool. Protect from sunlight.Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.Heat and ignition sourcesKeep away from heat and direct sunlight.

Storage temperature 5-25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.

Environmental exposure controls Not applicable.

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)

Materials for protective clothing

Long sleeved protective clothing

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

Personal protective equipment symbol(s)



Relative density





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 Solid

Appearance Thixotropic paste

Colour white. Odour characteristic. Odour threshold Not determined Melting point Not available Freezing point Not available 100 °C Boiling point Flammability Flammable Lower explosion limit Not applicable Upper explosion limit Not applicable Not applicable Flash point Not self-igniting Auto-ignition temperature

Decomposition temperature Not available SADT 65 °C dibenzoyl peroxide

pH 6 - 7
pH solution Not available
Viscosity, kinematic (calculated value) (40 °C) Not applicable
Partition coefficient n-octanol/water (Log Kow) Not available
Vapour pressure 23 hPa
Vapour pressure at 50 °C Not available
Density 1,9 g/cm³

Relative vapour density at 20°C Not applicable

Solubility Water: Miscible with water

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Not available



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Viscosity, dynamic 25 - 55 Pa·s HN-0333

Particle size Not available

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

Explosive properties Product is not explosive

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Not classified Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Skin corrosion/irritation Not classified pH: 6 - 7

Serious eye damage/irritation Causes serious eye irritation.

pH: 6 - 7

Respiratory or skin sensitisation May cause an allergic skin reaction.

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

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term Very toxic to aquatic life.

(acute)

Classification procedure (Hazardous to the aquatic

environment, short-term (acute))

Hazardous to the aquatic environment, long-term

(chronic)

Very toxic to aquatic life with long lasting effects.

Classification procedure (Hazardous to the aquatic

environment, long-term (chronic))

Calculation method

Calculation method

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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

HIT-HY 200-A V3, B		
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

HIT-HY 200-A V3, B	
Bioaccumulative potential	Not established.
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

HIT-HY 200-A V3, 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 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. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available
Other information

Avoid release to the environment.

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.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

	ADR	IMDG	IATA	RID
Special provision(s) applied : 375		Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375
	These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 Lor less for liquid			

e substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

14.1. UN number or ID number

UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name			

ENVIRONMENTALLY		
HAZARDOUS SUBSTANCE,		
SOLID, N.O.S. (dibenzoyl		
peroxide)		

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

Transport document description

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-)

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III

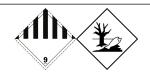
UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III

14.3. Transport hazard class(es)









14.4. Packing group

III	III	III	III
-----	-----	-----	-----

14.5. Environmental hazards

| Dangerous for the environment: |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Yes | Yes | Yes | Yes |
| | Marine pollutant: Yes | | |

Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.

not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7

14.6. Special precautions for user

Overland transport

Orange plates

Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Transport category (ADR)

M7

274, 335, 375, 601

P002, IBC08, LP02, R001 MP10

90 3077

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Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) 274, 335, 966, 967, 969

Limited quantities (IMDG) 5 kg
Packing instructions (IMDG) LP02, P002
EmS-No. (Fire) F-A
EmS-No. (Spillage) S-F
Stowage category (IMDG) A
Stowage and handling (IMDG) SW23
MFAG-No 171

Air transport

PCA packing instructions (IATA) 956
PCA max net quantity (IATA) 400kg
CAO packing instructions (IATA) 956

Special provisions (IATA) A97, A158, A179, A197, A215

Rail transport

Special provisions (RID) 274, 335, 375, 601

Limited quantities (RID) 5kg

Packing instructions (RID) P002, IBC08, LP02, R001

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
Issue date 13/04/2023
Revision date 13/04/2023

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

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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

SDS - Safety Data Sheet

vPvB - Very Persistent and Very Bioaccumulative

None.

Full text of H-statements:		
H241	Heating may cause a fire or explosion	
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

Other information

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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