

HIT-HY 200-R V3

Safety information for 2-Component-products

Issue date: 30/01/2025 Revision date: 30/01/2025 Supersedes: 13/01/2021 Version: 2.0

SECTION 1: Kit identification

1.1 Product identifier

Product name HIT-HY 200-R V3



Product code **BU** Anchor

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

Hilti Far East Private Ltd. 80 Pasir Panjang Road, #16-83/84 Mapletree Business City 117372 Singapore - Singapur T +65 6777 7887 - F +65 6777 3057 sg-customerservice@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: Kit contents

Classification of the Product

GHS SG classification

Health hazards Serious eye damage/eye irritation, Category 2

Skin sensitisation, Category 1

Environmental hazards Hazardous to the aquatic environment - Acute Hazard, Category 1

Hazardous to the aquatic environment - Chronic Hazard, Category 1

Label elements

GHS SG labelling

Hazard pictograms (GHS SG)

Precautionary statements (GHS SG)

Signal word (GHS SG) Hazardous ingredients





GHS07

methacrylates, dibenzoyl peroxide

Hazard statements (GHS SG) 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.

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Safety information for 2-Component-products

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water.

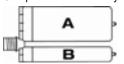
P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Additional information

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	GHS SG classification
HIT-HY 200-R V3, B		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HIT-HY 200-R 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.

Precautions for safe handling Wear personal protective equipment Avoid contact with skin and eyes

Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work

Provide good ventilation in process area to prevent formation of vapour

Methods for cleaning up

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

Mechanically recover the product Store away from other materials.

For containment Collect spillage.
Incompatible materials Sources of ignition Direct sunlight

Strong bases Strong acids

SECTION 6: First aid measures

Incompatible products

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

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Safety information for 2-Component-products

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

Firefighting instructions

Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire

Prevent fire fighting water from entering the environment

Protection during firefighting Self-contained breathing apparatus

Do not enter fire area without proper protective equipment, including respiratory protection

Hazardous decomposition products in case of

fire

Thermal decomposition generates : Carbon dioxide

Carbon monoxide

SECTION 8: Other information

No data available

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SECTION 1: Identification

1.1. Product identifier

Name HIT-HY 200-R V3, B

Product code BU Anchor

Chemical name Injection Mortar HIT-HY 200-R V3

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions For professional use only Restrictions on use For professional use only

1.4. Supplier's details

Supplier

Hilti Far East Private Ltd.

80 Pasir Panjang Road, #16-83/84 Mapletree Business City Singapore

Singapur 117372

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sg-customerservice@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 Kaufering Deutschland 86916

T +49 8191 906876

product.compliance-anchors@hilti.com

1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Health hazards Serious eye damage/eye irritation, Category 2

Skin sensitisation, Category 1

Environmental hazards Hazardous to the aquatic environment – Acute Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

2.2. GHS label elements, including precautionary statements

Hazard pictograms (GHS SG)





Signal word (GHS SG)

Hazard statements (GHS SG)

H317: May cause an allergic skin reaction H319: Causes serious eye irritation

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

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

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

Response

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/attention.

 ${\sf P337+P313}: If \ eye \ irritation \ persists: \ Get \ medical \ advice/attention.$

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

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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

This mixture does not contain any substances to be mentioned according to the applicable regulations

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).

Inhalation Remove person to fresh air and keep comfortable for breathing. Allow affected person to

breathe fresh air. Allow the victim to rest.

Skin contact Wash contaminated clothing before reuse. Wash with plenty of water/.... If skin irritation or

rash occurs: Get medical advice/attention.

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.

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

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

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.

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According to SS 586 Part 3 (2022)

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

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

legislation. Mechanically recover the product. Store away from other materials.

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 conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

Heat and ignition sources Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

HIT-HY 200-R V3, B		
Singapore - Occupational Exposure Limits		
Local name	Benzoyl peroxide	
PEL (OEL TWA)	5 mg/m³	
Regulatory reference	WSH (General Provision) Regulation 2014	

8.2. Appropriate engineering control measures

Appropriate engineering controls Ensure good ventilation of the work station.

8.3. Personal protection – 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. Change contaminated gloves after 30 min. Please follow the instructions related to the permeability and the

penetration time provided by the manufacturer

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	0,12		EN ISO 374

Eye protection Wear security glasses which protect from splashes

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

Personal protective equipment symbol(s)







Environmental exposure controls

Consumer exposure controls

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.

Avoid contact during pregnancy/while nursing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste.

Colour white

Odour characteristic
Odour threshold Not determined

pH No data available
Relative evaporation rate (butylacetate=1) No data available
Evaporation rate No data available
Melting point No data available

Freezing point

Boiling point

No data available
Flash point

Auto-ignition temperature

Decomposition temperature

Flammability

Vapour pressure

No data available

Flammable solid.

No data available

No data available

Relative vapour density at 20°C
Relative density
No data available
No data available
Density
1.9 g/ml AW 4.3.23
Solubility
Water: Not miscible
Partition coefficient n-octanol/water (Log Pow)
No data available
Partition coefficient n-octanol/water (Log Kow)
Viscosity, kinematic
No data available
21052.632 mm²/s

Product is not explosive. Explosive properties Oxidising properties No data available **Explosive limits** No data available Particle size No data available Particle size distribution No data available No data available Particle shape Particle aspect ratio No data available Particle specific surface area No data available

9.2. Other information

Viscosity, dynamic

SADT 65 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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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. Acute toxicity

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Not classified

Not classified

Not classified

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

Not classified

Not classified

Not classified

Not classified

HIT-HY 200-R V3, B	
Viscosity, kinematic	21052.632 mm²/s
Density	1.9 g/ml AW 4.3.23

Potential adverse human health effects and No additional information available.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

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

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Very toxic to aquatic life with long lasting effects.

Other information Avoid release to the environment.

12.2. Persistence and degradability

HIT-HY 200-R V3, B	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

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

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12.4. Mobility in soil

HIT-HY 200-R V3, B	
Mobility in soil	No additional information available

12.5. Other adverse effects

Not classified

Other adverse effects No additional information available

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations

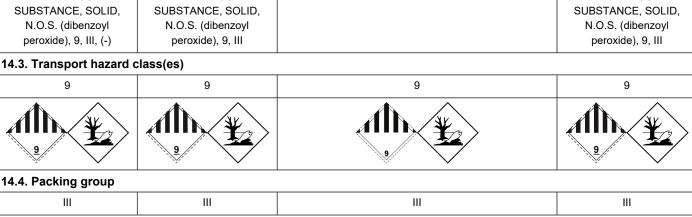
After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

n 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 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				

4.2. UN proper shipping name				
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY	
HAZARDOUS	HAZARDOUS	(dibenzoyl peroxide)	HAZARDOUS	
SUBSTANCE SOLID	SUBSTANCE SOLID		SUBSTANCE SOLID	

N.O.S. (dibenzoyl peroxide)	N.O.S. (dibenzoyl peroxide)		N.O.S. (dibenzoyl peroxide)		
Transport document descr	Transport document description				
UN 3077	UN 3077	UN 3077 Environmentally hazardous substance, solid,	UN 3077		
ENVIRONMENTALLY	ENVIRONMENTALLY	n.o.s. (dibenzoyl peroxide), 9, III	ENVIRONMENTALLY		
HAZARDOUS	HAZARDOUS		HAZARDOUS		
SUBSTANCE, SOLID,	SUBSTANCE, SOLID,		SUBSTANCE, SOLID,		
N.O.S. (dibenzoyl	N.O.S. (dibenzoyl		N.O.S. (dibenzoyl		
peroxide), 9, III, (-)	peroxide), 9, III		peroxide), 9, III		
14.3. Transport hazard class(es)					



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According to SS 586 Part 3 (2022)

ADR	IMDG	IATA	RID		
14.5. Environmental haz	14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes		
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

Classification code (ADR) M7

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

Limited quantities (ADR) 5

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

Mixed packing provisions (ADR) MP10

Transport category (ADR) 3

Orange plates 90 3077

Tunnel restriction code (ADR)

Transport by sea

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

Limited quantities (IMDG)5 kgPacking instructions (IMDG)LP02, P002EmS-No. (Fire)F-AEmS-No. (Spillage)S-F

Stowage category (IMDG)
Stowage and handling (IMDG)
SW23

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

15.2. International regulations

No additional information available

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15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

Issue date Revision date

Abbreviations and acronyms

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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

vPvB - Very Persistent and Very Bioaccumulative

None.

Other information

SDS_SG_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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SECTION 1: Identification

1.1. Product identifier

HIT-HY 200-R V3, A Name

Product code **BU Anchor**

Chemical name Injection Mortar HIT-HY 200-R V3

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions For professional use only Restrictions on use For professional use only

1.4. Supplier's details

Supplier

Hilti Far East Private Ltd.

80 Pasir Panjang Road, #16-83/84 Mapletree Business City Singapore

Singapur 117372

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Department issuing data specification sheet

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product.compliance-anchors@hilti.com

1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Health hazards Skin sensitisation, Category 1

2.2. GHS label elements, including precautionary statements

Hazard pictograms (GHS SG)



Signal word (GHS SG)

Hazard statements (GHS SG)

H317: May cause an allergic skin reaction

Precautionary statements

Prevention

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

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

Response

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

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

P337+P313: If eye irritation persists: Get medical advice/attention. P302+P352: IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards which do not result in classification

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	BDDMA	10 – 25	C12H18O4	CAS-No.: 2082-81-7 EC-No.: 218-218-1
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	1,2-propanediol, 2-methyl, monomethacrylate / 2- propenoic acid, 2-methyl-, 2-hydroxymethylethyl ester / hydroxypropyl methacrylate (HPMA)	5 – 10	C7H12O3	CAS-No.: 27813-02-1 EC-No.: 248-666-3 EC Index-No.: 607- 125-00-5
1,1'-(p-tolylimino)dipropan-2-ol	DiPpT	0.1 – 1	C13H21NO2	CAS-No.: 38668-48-3 EC-No.: 254-075-1
2,2'-(m-tolylimino)diethanol	-	0.1 – 1	-	CAS-No.: 91-99-6 EC-No.: 202-114-8

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

oossible).

Inhalation Remove person to fresh air and keep comfortable for breathing. Allow affected person to

breathe fresh air. Allow the victim to rest.

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

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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

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

legislation. Mechanically recover the product. Store away from other materials.

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 conditions

Keep cool. Protect from sunlight.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature $5-25^{\circ}$ C

Heat and ignition sources Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

HIT-HY 200-R V3, A		
Singapore - Occupational Exposure Limits		
Local name	Aluminium oxide	
PEL (OEL TWA)	10 mg/m³	
Regulatory reference	WSH (General Provision) Regulation 2014	

8.2. Appropriate engineering control measures

Appropriate engineering controls Ensure good ventilation of the work station.

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8.3. Personal protection - 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. Change contaminated gloves after 30 min. Please follow the instructions related to the permeability and the

penetration time provided by the manufacturer

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 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)



Boiling point

Particle shape

Particle aspect ratio





Environmental exposure controls Consumer exposure controls Not applicable.

No data available

Avoid contact during pregnancy/while nursing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste.

Colour Black
Odour characteristic
Odour threshold Not determined
pH No data available
Relative evaporation rate (butylacetate=1) No data available
Evaporation rate No data available
Melting point No data available
Freezing point No data available

Flash point > 109 °C DIN EN ISO 1523

Not self-igniting Auto-ignition temperature Decomposition temperature No data available Flammability Flammable solid. No data available Vapour pressure Relative vapour density at 20°C No data available Relative density No data available Density 1.8 g/ml AW 4.3.23 Solubility Water: Not miscible Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) No data available 27777.778 mm²/s Viscosity, kinematic Viscosity, dynamic 50 Pa·s HN-0333 Explosive properties Product is not explosive. Oxidising properties No data available **Explosive limits** No data available Particle size No data available No data available Particle size distribution

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No data available

No data available



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Particle specific surface area

No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Acute toxicity

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
LD50 oral rat	10066 mg/kg	
LD50 oral	10060 mg/kg	
LD50 dermal rat	> 3000 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)	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
LD50 oral rat	25 mg/kg	
LD50 dermal rat	> 2000 mg/kg	

2,2'-(m-tolylimino)diethanol (91-99-6)	
LD50 oral rat	300 – 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	Not classified
0	Nick of a colfficial

Serious eye damage/irritation Not classified

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Not classified

Not classified

Reproductive toxicity

Not classified

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Not classified STOT-single exposure STOT-repeated exposure Not classified Aspiration hazard Not classified

HIT-HY 200-R V3, A	
Viscosity, kinematic	27777.778 mm²/s
Density	1.8 g/ml AW 4.3.23
Potential adverse human health effects and	No additional information available.

Potential adverse human health effects and

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not classified.

Not classified.

Other information Avoid release to the environment.

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)			
LC50 - Other aquatic organisms [1]	9.79 mg/l		
ErC50 algae	9.79 mg/l		
NOEC (acute)	7.51 mg/l		
NOEC (chronic)	20 mg/l		
NOEC chronic crustacea	5.09 mg/l		
NOEC chronic algae	2.11 mg/l		
Partition coefficient n-octanol/water (Log Pow)	3.1		
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)		
BCF - Fish [1]	≤ 100		
BCF - Fish [2]	3.2 Quantitative structure-activity relationship (QSAR)		
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)		
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)		
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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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
Partition coefficient n-octanol/water (Log Kow)	2.1		
2,2'-(m-tolylimino)diethanol (91-99-6)			
Partition coefficient n-octanol/water (Log Pow)	1.9		
12.2. Persistence and degradability			
HIT-HY 200-R V3, A			
Persistence and degradability	Not established.		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl es	ter (2082-81-7)		
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.		
12.3. Bioaccumulative potential			
HIT-HY 200-R V3, A			
Bioaccumulative potential	Not established.		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl es	ter (2082-81-7)		
Partition coefficient n-octanol/water (Log Pow)	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 Pow)	0.97 (OECD 102 method)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)		
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
Partition coefficient n-octanol/water (Log Kow)	2.1		
2,2'-(m-tolylimino)diethanol (91-99-6)			
Partition coefficient n-octanol/water (Log Pow)	1.9		
12.4. Mobility in soil			
HIT-HY 200-R V3, A			
Mobility in soil	No additional information available		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)			
Partition coefficient n-octanol/water (Log Pow)	3.1		
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)			
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)		

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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Partition coefficient n-octanol/water (Log Kow)	2.1	
2,2'-(m-tolylimino)diethanol (91-99-6)		
2,2 -(m-tolylimino)diethanol (91-99-6)		

12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID		
14.1. UN number or ID n	4.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated		
14.2. UN proper shippin	g name				
Not regulated	Not regulated	Not regulated	Not regulated		
14.3. Transport hazard o	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 haz	ards				
Not regulated	Not regulated	Not regulated	Not regulated		
No supplementary information	on 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

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SECTION 15: Regulatory information

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

No additional information available

15.2. International regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

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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

vPvB - Very Persistent and Very Bioaccumulative

None.

Other information

SDS_SG_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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