

HIT-HY 200-R

Safety information for 2-Component-products

Issue date: 28/02/2023

Revision date: 28/02/2023

Supersedes: 08/08/2019

Version: 3.5

SECTION 1: Kit identification

1.1 Product identifier

Product name

HIT-HY 200-R



Product code

BU Anchor

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

Hilti Taiwan Co., Ltd.
24/F, No. 16, Xinzhan Road, Banqiao Dist.
220 New Taipei City - Taiwan
T +886 2 6630 0345;
0800 221 036 Toll Free - F +886 2 2950 6132
twcs@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

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

Health hazards

Serious eye damage/eye irritation, Category 2A
Skin sensitization, Category 1

Environmental hazards

Hazardous to the aquatic environment - Acute Hazard, Category 1
Hazardous to the aquatic environment - Chronic Hazard, Category 1

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

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

Hazard pictograms (GHS TW)



GHS07



GHS09

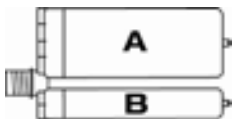
HIT-HY 200-R

Safety information for 2-Component-products

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

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 (Rev. 4, 2011)
HIT-HY 200-R, A		1	pcs (pieces)	Skin Sens. 1, H317
HIT-HY 200-R, B		1	pcs (pieces)	Org. Perox. Not classified Eye Irrit. 2A, 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 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

HIT-HY 200-R

Safety information for 2-Component-products

Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation Mechanically recover the product Store away from other materials.
For containment	Collect spillage.
Incompatible materials	Sources of ignition Direct sunlight
Incompatible products	Strong bases Strong acids

SECTION 6: First aid measures

First-aid measures after eye contact	Rinse immediately with plenty of water Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists
First-aid measures after ingestion	Rinse mouth Get medical advice/attention. Do not induce vomiting Obtain emergency medical attention
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air Allow the victim to rest
First-aid measures after skin contact	Wash contaminated clothing before reuse. 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

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Issue date: 2023/02/28 Revision date: 2023/02/28 Supersedes: 2019/08/08 Version: 3.5

1. Identification of the chemical and of the business entity

Chemical name	HIT-HY 200-R, B
Product code	BU Anchor
Other Names	-
Recommended use	Composite mortar component for fasteners in the construction industry
Restrictions on use	For professional use only
Names, addresses, and phone numbers of manufacturer, importer or supplier	Supplier Hilti Taiwan Co., Ltd. 220 Taiwan New Taipei City 24/F, No. 16, Xinzhan Road, Banqiao Dist. T +886 2 6630 0345; 0800 221 036 Toll Free - F +886 2 2950 6132 twcs@hilti.com Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering Deutschland T +49 8191 906876 anchor.hse@hilti.com
Emergency number	Schweizerisches Toxikologisches Informationszentrum - 24h Service +41 44 251 51 51 (international) +886 2 2357 9090 0800 221 036 Toll Free

2. Hazard(s) identification

GHS classification (Taiwan)

Health hazards	Serious eye damage/eye irritation, Category 2A Skin sensitization, Category 1
Environmental hazards	Hazardous to the aquatic environment - Acute Hazard, Category 1 Hazardous to the aquatic environment - Chronic Hazard, Category 1

Label content

Hazard pictograms (GHS TW)



GHS07, GHS09

Signal word (GHS TW)

Warning

Hazard statements (GHS TW)

(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 precautionary statements

(P280) Wear eye protection, protective clothing, protective gloves.
(P262) Do not get in eyes, on skin, or on clothing.

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Response Precautionary Statements	(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. (P337+P313) If eye irritation persists: Get medical advice/attention. (P302+P352) IF ON SKIN: Wash with plenty of Water.
Storage precautionary statements	-
Disposal precautionary statements	-
Other hazards which do not result in classification	-

3. Composition/information on ingredients

Substance:

Not applicable

Mixture:

Chemical properties Refer to Section 9

Name	CAS-No.	Concentration
dibenzoyl peroxide (过氧化二苯甲酰)	94-36-0	10 - 25

4. First-aid measures

First aid measures for different exposure routes

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

Most Important Symptoms/Effects

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

Protection for the first aid staff

Personal Protection in First Aid and Measures	Avoid all unnecessary exposure
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HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Notes to physician

No additional information available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Water spray Carbon dioxide Dry powder Foam Sand
Unsuitable extinguishing media	Do not use a heavy water stream

Specific hazards arising from firefighting measures

Fire hazard	-
Explosion hazard	-
General measures	Spilled material may present a slipping hazard
Reactivity in case of fire	-
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

Specific firefighting methods

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
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Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus - Do not enter fire area without proper protective equipment, including respiratory protection
Personal protection (Emergency response)	-

6. Accidental release measures

Personal precautions

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

Environmental precautions

Environmental precautions	Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters
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HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

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

7. Handling and storage

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
Hygiene measures	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.

Storage

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

8. Exposure controls/personal protection

Appropriate engineering controls	Ensure adequate ventilation
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Control parameters

HIT-HY 200-R, B	
Taiwan - Occupational Exposure Limits	
Local name	過氧苯醯 # Benzoyl peroxide
OEL TWA	5 mg/m ³
Regulatory reference	勞工作業場所容許暴露標準 (2018.03.14 修正) # Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace (2018.03.14 Modified)
dibenzoyl peroxide (94-36-0)	
Taiwan - Occupational Exposure Limits	
Local name	過氧苯醯 # Benzoyl peroxide

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

dibenzoyl peroxide (94-36-0)	
Taiwan - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Regulatory reference	Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace (2018.03.14 Modified)
Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

Personal protective equipment

General:

Personal protective equipment:

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

Respiratory protection:

-

Hand protection:

Hand protection

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

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

Eye protection:

Eye protection

Wear security glasses which protect from splashes

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

Skin and body protection:

-

Personal protective equipment symbol(s):



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.

9. Physical and chemical properties

Appearance	Thixotropic paste
Physical state	Solid
Colour	white
Odour	characteristic
Odour threshold [ppm]	Not determined

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

pH	No data available
Evaporation rate	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
SADT	65 ° C
Flammability (solid, gas)	Flammable
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	1.9 g/ml AW 4.3.23
Solubility	Water: Not miscible
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, kinematic	21052.632 mm ² /s
Viscosity, kinematic (calculated value) (40 ° C)	21052.632 mm ² /s
Viscosity, dynamic	40 Pa • s HN-0333
Explosive limits (vol %)	No data available
Explosive properties	Product is not explosive

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No additional information available
Conditions to avoid	Direct sunlight. Extremely high or low temperatures
Incompatible materials	Strong acids Strong bases
Hazardous decomposition products	fume Carbon monoxide Carbon dioxide Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological information

Routes of exposure

No additional information available

Symptoms

Potential adverse human health effects and No additional information available

Acute toxicity

Acute toxicity (oral) Not classified

Acute toxicity (dermal) Not classified

Acute toxicity (inhalation) Not classified

Skin corrosion/irritation

Skin corrosion/irritation Not classified

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Chronic toxicity or long-term toxicity	
Germ cell mutagenicity	
Germ cell mutagenicity	Not classified
Carcinogenicity	
Carcinogenicity	Not classified
Reproductive toxicity	
Reproductive toxicity	Not classified
STOT-single exposure	
STOT-single exposure	Not classified
STOT-repeated exposure	
STOT-repeated exposure	Not classified
Aspiration hazard	
Aspiration hazard	Not classified
Viscosity, kinematic	21052.632 mm ² /s

12. Ecological information

Ecotoxicity

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

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

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)

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

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

dibenzoyl peroxide (94-36-0)

NOEC chronic fish	0.001 mg/l
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Additional ecotoxicological information

dibenzoyl peroxide (94-36-0)

NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)
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Persistence and degradability

HIT-HY 200-R, B

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

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water Not established May cause long-term adverse effects in the environment

Bioaccumulative potential

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

dibenzoyl peroxide (94-36-0)	
Partition coefficient n-octanol/water (Log Pow)	3.71
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)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)

Mobility in soil

dibenzoyl peroxide (94-36-0)	
Surface tension	No data available (test not performed)
Partition coefficient n-octanol/water (Log Pow)	3.71
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.

Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

13. Disposal considerations

Waste treatment methods	-
Ecology - waste materials	Avoid release to the environment.
Sewage disposal recommendations	-
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
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.

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

ADR	IMDG	IATA	RID
14.1. UN 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)			
9	9	9	9
14.4. Packing group			
III	III	III	III
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)	5kg
Packing instructions (ADR)	P002, IBC08, LP02, R001
Mixed packing provisions (ADR)	MP10
Transport category (ADR)	3
Orange plates	

Tunnel restriction code (ADR) -

Transport by sea

Special provisions (IMDG)	274, 335, 966, 967, 969
Limited quantities (IMDG)	5 kg

HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Packing instructions (IMDG)	LP02, P002
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A
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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

Applicable regulations

1. Occupational Safety and Health Act
2. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
3. Traffic Safety Rule

16. Other information

Literature references

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Organization that prepared the SDS

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

Person who prepared the SDS

Job title : Name (signature) :
- -

Version	3.5
Issue date	2023/02/28
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HIT-HY 200-R, B

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

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, TLM - Median Tolerance Limit, vPvB - Very Persistent and Very Bioaccumulative

Other information

None

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.

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Issue date: 2023/02/28 Revision date: 2023/02/28 Supersedes: 2019/08/08 Version: 3.4

1. Identification of the chemical and of the business entity

Chemical name	HIT-HY 200-R, A
Product code	BU Anchor
Other Names	-
Recommended use	Composite mortar component for fasteners in the construction industry
Restrictions on use	For professional use only
Names, addresses, and phone numbers of manufacturer, importer or supplier	Supplier Hilti Taiwan Co., Ltd. 220 Taiwan New Taipei City 24/F, No. 16, Xinzhan Road, Banqiao Dist. T +886 2 6630 0345; 0800 221 036 Toll Free - F +886 2 2950 6132 twcs@hilti.com Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering Deutschland T +49 8191 906876 anchor.hse@hilti.com
Emergency number	Schweizerisches Toxikologisches Informationszentrum - 24h Service +41 44 251 51 51 (international) +886 2 2357 9090 0800 221 036 Toll Free

2. Hazard(s) identification

GHS classification (Taiwan)

Health hazards Skin sensitization, Category 1

Label content

Hazard pictograms (GHS TW)



GHS07

Signal word (GHS TW)

Warning

Hazard statements (GHS TW)

(H317) May cause an allergic skin reaction

Precautionary statements

-

Prevention precautionary statements

(P280) Wear eye protection, protective clothing, protective gloves.

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

Response Precautionary Statements

(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.

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

(P302+P352) IF ON SKIN: Wash with plenty of Water.

Storage precautionary statements

-

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Disposal precautionary statements -
 Other hazards which do not result in classification -

3. Composition/information on ingredients

Substance:

Not applicable

Mixture:

Chemical properties Refer to Section 9

Name	CAS-No.	Concentration
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2-甲基-2-丙烯酸 (1,4-丁二醇) 酯)	2082-81-7	10 - 25
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (2-甲基-2-丙烯酸-1,2-丙二醇 酯)	27813-02-1	5 - 10
1,1'-(p-tolylimino)dipropan-2-ol (1,1'-[(4-甲基苯基)亞氨基]二-2-丙醇)	38668-48-3	0.1 - 1
2,2'-(m-tolylimino)diethanol (N-(3-甲基苯基)二乙醇胺)	91-99-6	0.1 - 1

4. First-aid measures

First aid measures for different exposure routes

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 -

First-aid measures after eye contact -

First-aid measures after ingestion -

Most Important Symptoms/Effects

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

Protection for the first aid staff

Personal Protection in First Aid and Measures Avoid all unnecessary exposure

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Notes to physician

No additional information available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Water spray Carbon dioxide Dry powder Foam Sand
Unsuitable extinguishing media	Do not use a heavy water stream

Specific hazards arising from firefighting measures

Fire hazard	-
Explosion hazard	-
General measures	Spilled material may present a slipping hazard
Reactivity in case of fire	-
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

Specific firefighting methods

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
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Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus - Do not enter fire area without proper protective equipment, including respiratory protection
Personal protection (Emergency response)	-

6. Accidental release measures

Personal precautions

General measures	Spilled material may present a slipping hazard
For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel
For emergency responders	
Emergency procedures	Ventilate area

Environmental precautions

Environmental precautions	-
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Methods and material for containment and cleaning up

For containment	-
Methods for cleaning up	-

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

7. Handling and storage

Handling

No additional information available

Storage

Incompatible products	Strong bases
	Strong acids
Incompatible materials	Sources of ignition
	Direct sunlight
Heat and ignition sources	Keep away from heat and direct sunlight

8. Exposure controls/personal protection

Appropriate engineering controls Ensure adequate ventilation

Control parameters

No additional information available

Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.
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Personal protective equipment

General:

Personal protective equipment:
Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Respiratory protection:

-

Hand protection:

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

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

Eye protection:

Eye protection Wear security glasses which protect from splashes

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

Skin and body protection:

-

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Personal protective equipment symbol(s):



Hygiene measures:

-

9. Physical and chemical properties

Appearance	Thixotropic paste
Physical state	Solid
Colour	Light grey
Odour	characteristic
Odour threshold [ppm]	Not determined
pH	No data available
Evaporation rate	No data available
Melting point	No data available
Boiling point	No data available
Flash point	> 109 ° C DIN EN ISO 1523
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	Flammable
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	1.8 g/ml AW 4.3.23
Solubility	Water: Not miscible
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, kinematic	27777.778 mm ² /s
Viscosity, kinematic (calculated value) (40 ° C)	27777.778 mm ² /s
Viscosity, dynamic	50 Pa • s HN-0333
Explosive limits (vol %)	No data available
Explosive properties	Product is not explosive

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong acids Strong bases
Hazardous decomposition products	No data available

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

11. Toxicological information

Routes of exposure

No additional information available

Symptoms

Potential adverse human health effects and No additional information available

Acute toxicity

Acute toxicity (oral) Not classified

Acute toxicity (dermal) Not classified

Acute toxicity (inhalation) Not classified

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-, 1,4-butanediyl ester (2082-81-7)

LD50 oral rat 10066 mg/kg

LD50 dermal rat > 3000 mg/kg

2,2'-(m-tolylimino)diethanol (91-99-6)

LD50 oral rat 300 - 2000 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; \geq 2000 mg/kg bodyweight; Rat; Experimental value)

LD50 dermal rabbit \geq 5000 mg/kg bodyweight (Rabbit; Experimental value)

Skin corrosion/irritation

Skin corrosion/irritation Not classified

Serious eye damage/irritation

Serious eye damage/irritation Not classified

Respiratory or skin sensitisation

Respiratory or skin sensitisation May cause an allergic skin reaction.

Chronic toxicity or long-term toxicity

Germ cell mutagenicity

Germ cell mutagenicity Not classified

Carcinogenicity

Carcinogenicity Not classified

Reproductive toxicity

Reproductive toxicity Not classified

STOT-single exposure

STOT-single exposure Not classified

STOT-repeated exposure

STOT-repeated exposure Not classified

2,2'-(m-tolylimino)diethanol (91-99-6)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Aspiration hazard

Aspiration hazard	Not classified
Viscosity, kinematic	27777.778 mm ² /s

12. Ecological information

Ecotoxicity

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

Hazardous to the aquatic environment, short-term (acute)	Not classified
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1,1'-(p-tolylimino)dipropyl-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

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

LC50 - Other aquatic organisms [1]	9.79 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)

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

Hazardous to the aquatic environment, long-term (chronic)	Not classified
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2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

NOEC (chronic)	20 mg/l
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Additional ecotoxicological information

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

NOEC (acute)	57.8 mg/l
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2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

NOEC (acute)	7.51 mg/l
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2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)

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)

Persistence and degradability

HIT-HY 200-R, A

Persistence and degradability	Not established
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2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

Biodegradation	84 %
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HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Persistence and degradability	Readily biodegradable in water

Bioaccumulative potential

HIT-HY 200-R, A	
Bioaccumulative potential	Not established
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Kow)	2.1
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
Partition coefficient n-octanol/water (Log Pow)	3.1
2,2'-(m-tolylimino)diethanol (91-99-6)	
Partition coefficient n-octanol/water (Log Pow)	1.9
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)

Mobility in soil

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Kow)	2.1
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
Partition coefficient n-octanol/water (Log Pow)	3.1
2,2'-(m-tolylimino)diethanol (91-99-6)	
Partition coefficient n-octanol/water (Log Pow)	1.9
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)
Ecology - soil	Highly mobile in soil.

Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

13. Disposal considerations

Waste treatment methods	-
Ecology - waste materials	Avoid release to the environment.
Sewage disposal recommendations	-

HIT-HY 200-R, A

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

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			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
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			
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

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

Applicable regulations

- Occupational Safety and Health Act
- Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
- Traffic Safety Rule

