

# HUS4-MAX

Safety information for 2-Component-products

Issue date: 05/02/2025 Revision date: 05/02/2025

Version:	1	1
version.		

# **SECTION 1: Kit identification**

## **1.1 Product identifier**

Product name



Product code

# 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**

Restrictions on use Storage

For professional use only Storage temperature : -20 - +25 °C

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

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

# **SECTION 3: Kit contents**

## **Classification of the Product**

### **GHS SG classification**

Physical hazards	Organic peroxides, Type F
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**

g	
Hazard pictograms (GHS SG)	
	GHS02 GHS07 GHS09
Signal word (GHS SG)	Warning
Hazardous ingredients	2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (A); 2-Propenoic acid, 2-methyl-,

Hazard statements (GHS SG)

H242 - Heating may cause a fire. H317 - May cause an allergic skin reaction.

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

06/02/2025



# HUS4-MAX

Safety information for 2-Component-products

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

# Additional information

Foil capsule contains: Component A: Urethane methacrylate resin Component B: Dibenzoyl peroxide, phlegmatized

A A	
В	E

Name	General description	Quantity	Unit	GHS SG classification
HUS4-MAX, A		1	pcs (pieces)	Skin Sens. 1, H317
HUS4-MAX, B		1	pcs (pieces)	Org. Perox. F, H242 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# SECTION 4: General advice

General advice

For professional users only

General measures	Spilled material may present a slipping hazard
Environmental precautions	Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters
Storage conditions	Keep container tightly closed. Keep cool. Protect from sunlight. Avoid contact with : Air Expiry date: See date printed on box and capsule. Do not use if expiry date has been exceeded! Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautions for safe handling	Wear personal protective equipment Avoid contact with skin and eyes Avoid breathing dust, vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work Provide good ventilation in process area to prevent formation of vapour Prevent the build-up of electrostatic charge Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Methods for cleaning up	Stop leak without risks if possible Use non-sparking tools Absorb and/or contain spill with inert material, then place in suitable container. This material and its container must be disposed of in a safe way, and as per local legislation
For containment	Collect spillage.
Incompatible materials	Strong acids Strong bases Activator



HUS4-MAX

Safety information for 2-Component-products

reducing agents solid salts and solutions containing heavy metals

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.
Other medical advice or treatment	Treat symptomatically

SECTION 7: Fire fighting measures	
Firefighting instructions	Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment
Protection during firefighting	Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide

# **SECTION 8: Other information**

No data available



Safety Data Sheet According to SS 586 Part 3 (2022) Issue date: 05.02.2025 Revision date: 05.02.2025

Supersedes: 22.06.2022

Version: 1.1

SECTION 4. Identification			
SECTION 1: Identification			
1.1. Product identifier			
Name	HUS4-MAX, A		
Product code	BU Anchor		
Chemical name	Adhesive Capsu	le HUS4-MAX, A	
Generic name	HUS4-MAX, A		
1.2. Other means of identification			
No additional information available			
1.3. Recommended use of the chemical and re	estrictions on u	ISe	
Recommended use	Adhesive anchor capsule for anchor fastening in concrete		
Restrictions on use	For professional use only		
1.4. Supplier's details			
Supplier		Department issuing data specification sheet	
Hilti Far East Private Ltd.		Hilti Entwicklungsgesellschaft mbH	
80 Pasir Panjang Road, #16-83/84 Mapletree Business	City Singapore	Hiltistraße 6 Kaufering Deutschland 86916	
Singapur 117372		T +49 8191 906876	
T +65 6777 7887 - F +65 6777 3057		product.compliance-anchors@hilti.com	
sg-customerservice@hilti.com			
1.5. Emergency phone number			
Emergency number	GBK GmbH Glo	oal Regulatory Compliance	
	+49 (0)6132-844	63	

# **SECTION 2: Hazard identification**

2.1. Classification of the substance or	mixture
Health hazards	Skin sensitisation, Category 1
2.2. GHS label elements, including pre-	cautionary statements
Hazard pictograms (GHS SG)	
Signal word (GHS SG)	Warning
Hazard statements (GHS SG)	
H317 : May cause an allergic skin reaction	
Precautionary statements	
Prevention	
P280 : Wear eye protection, protective clothing	g, protective gloves.

g, l 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.

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



# HUS4-MAX, A Safety Data Sheet

According to SS 586 Part 3 (2022)

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

Name	Concentration (%)	Formula	Product identifier
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	60 – 80	C12H18O4	CAS-No.: 2082-81-7 EC-No.: 218-218-1
1,1'-(p-tolylimino)dipropan-2-ol	1 – 2.5	C13H21NO2	CAS-No.: 38668-48-3 EC-No.: 254-075-1
2-Propenoic acid, 2-methyl-, monoester with 1,2- propanediol	0.1 – 1	C7H12O3	CAS-No.: 27813-02-1 EC-No.: 248-666-3 EC Index-No.: 607- 125-00-5
4-tert-butylpyrocatechol	0.1 – 1	C10H14O2	CAS-No.: 98-29-3 EC-No.: 202-653-9

# **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.

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

SECTION 5: Fire-fighting measures

Treat symptomatically.

SECTION 5. The inglitting 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 chemic	cal
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
5.3. Special protective actions for fire fighter	S
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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According to SS 586 Part 3 (2022)

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 contain	nment 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 inc	luding any incompatibilities

1.2. Conditions for sale storage, including any	ricompatibilities
Storage conditions	Keep cool. Protect from sunlight. Expiry date: See date printed on box and capsule. Do not
	use if expiry date has been exceeded!.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	-20 – 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

No additional information available

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.	
_		

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN ISO 374
Euro musto stism	•	\// · · · · · · · · · · · · ·	de la la unua tra at fuerus, a un la alu		

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
Skin and body protection	Wear suitable protective clothing	]	

Skin and body protection

Consumer exposure controls

# Personal protective equipment symbol(s)



Avoid release to the environment. Avoid contact during pregnancy/while nursing.

Liquid light yellow characteristic No data available

5.7

No data available 1.09 g/cm<sup>3</sup> No data available No data available No data available 160.55 mm<sup>2</sup>/s 175 mPa·s No data available No data available

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

3.1. Information on pasic physical and chemic
Physical state
Colour
Odour
Odour threshold
рН
Relative evaporation rate (butylacetate=1)
Evaporation rate
Melting point
Freezing point
Boiling point
Flash point
Auto-ignition temperature
Decomposition temperature
Flammability
Vapour pressure
Relative vapour density at 20°C
Relative density
Density
Solubility
Partition coefficient n-octanol/water (Log Pow)
Partition coefficient n-octanol/water (Log Kow)
Viscosity, kinematic
Viscosity, dynamic
Explosive properties
Oxidising properties
Explosive limits
Particle size
Particle size distribution
Particle shape
Particle aspect ratio
Particle specific surface area

# 9.2. Other information

SADT

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

No additional information available



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According to SS 586 Part 3 (2022)

# 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 info	ormation
11.1. Acute toxicity	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
2-Propenoic acid, 2-methyl-, 1,4-buta	nediyl ester (2082-81-7)
LD50 oral rat	10066 mg/kg
LD50 oral	10060 mg/kg
LD50 dermal rat	> 3000 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol (3866	8-48-3)
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
2-Propenoic acid, 2-methyl-, monoes	ter with 1,2-propanediol (27813-02-1)
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	≥ 5000 mg/kg bodyweight (Rabbit; Experimental value)
4-tert-butylpyrocatechol (98-29-3)	
LD50 oral rat	815 mg/kg bodyweight (Rat; Lethal; ECHA)
LD50 oral	2820 mg/kg
LD50 dermal rat	1331 mg/kg bodyweight (Rat;Lethal; ECHA)
LD50 dermal	630 mg/kg
Skin corrosion/irritation	Not classified
	pH: 5.7
Serious eye damage/irritation	Not classified
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
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
HUS4-MAX, A	
Viscosity, kinematic	160.55 mm²/s



Safety Data Sheet According to SS 586 Part 3 (2022)

HUS4-MAX, A 1.09 g/cm<sup>3</sup> Density SECTION 12: Ecological information 12.1. Toxicity Hazardous to the aquatic environment, short-term Not classified. (acute) Hazardous to the aquatic environment, long-term Not classified. (chronic) 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 2.11 mg/l NOEC chronic algae Partition coefficient n-octanol/water (Log Pow) 3.1 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 2.1 Partition coefficient n-octanol/water (Log Kow) 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 1.9 (log Koc, Calculated value) (Log Koc) Threshold limit - Algae [1] > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) Threshold limit - Algae [2] > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) 4-tert-butylpyrocatechol (98-29-3) LC50 - Fish [1] 0.12 mg/l (96 h, Danio rerio, Lethal, ECHA) ErC50 algae 10.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) EN (English)



Safety Data Sheet According to SS 586 Part 3 (2022)

4-tert-butylpyrocatechol (98-29-3)	
Partition coefficient n-octanol/water (Log Pow)	1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flas Method, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.37 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
2.2. Persistence and degradability	
HUS4-MAX, A	
Persistence and degradability	No additional information available
2-Propenoic acid, 2-methyl-, 1,4-butanediyl e	ester (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.
4-tert-butylpyrocatechol (98-29-3)	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.
ThOD	2.4 g O <sub>2</sub> /g substance
2.3. Bioaccumulative potential	
HUS4-MAX, A	
Bioaccumulative potential	No additional information available
2-Propenoic acid, 2-methyl-, 1,4-butanediyl e	ester (2082-81-7)
Partition coefficient n-octanol/water (Log Pow)	3.1
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Kow)	2.1
2-Propenoic acid, 2-methyl-, monoester with	1,2-propanediol (27813-02-1)
BCF - Fish [1]	≤ 100
BCF - Fish [2]	3.2 Quantitative structure-activity relationship (QSAR)
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)
	Low bioaccumulation potential (BCF < 500).
Bioaccumulative potential	
•	
4-tert-butylpyrocatechol (98-29-3)	
Bioaccumulative potential  4-tert-butylpyrocatechol (98-29-3)  Partition coefficient n-octanol/water (Log Pow)  Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flas

# HUS4-MAX, A Mobility in soil No additional information available



Safety Data Sheet According to SS 586 Part 3 (2022)

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Partition coefficient n-octanol/water (Log Pow)	3.1	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Partition coefficient n-octanol/water (Log Kow)	2.1	
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)	
Ecology - soil	Highly mobile in soil.	
4-tert-butylpyrocatechol (98-29-3)		
Surface tension	No data available (test not performed)	
Partition coefficient n-octanol/water (Log Pow)	1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.37 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		
Ozone Other adverse effects	Not classified 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**

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number or ID	number		1
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippir	ng name		1
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			1
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental ha	zards		
Not regulated	Not regulated	Not regulated	Not regulated



Safety Data Sheet According to SS 586 Part 3 (2022)

### 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

Regulation		Component / Mixture
Arms and Explosives Act	Not applicable	
Chemical Weapons Prohibition Act		
Environmental Protection and Management (Air Impurities) Regulations		
Environmental Protection and Management Act (Hazardous Substances)		
Environmental Public Health (Quality of Piped Drinking Water) Regulations		
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations		
Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations		
Misuse of Drugs Act		
Poisons Act		
Poisons Rules		
Hazardous waste (Control of export, import and transit) Act		
Strategic goods (Control) Act		

# 15.2. International regulations

No additional information available

# 15.3 Chemical inventory status

No additional information available

# SECTION 16: Other informationIssue date05/02/2025Revision date05/02/2025



Safety Data Sheet According to SS 586 Part 3 (2022)

Abbreviations and acronyms	CAS-No Chemical Abstract Service number
	ADN - European Agreement concerning the International Carriage of Dangerous Goods by
	Inland Waterways
	ADR - European Agreement concerning the International Carriage of Dangerous Goods by
	Road
	ATE - Acute Toxicity Estimate
	BCF - Bioconcentration factor
	BLV - Biological limit value
	BOD - Biochemical oxygen demand (BOD)
	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	COD - Chemical oxygen demand (COD)
	DMEL - Derived Minimal Effect level
	DNEL - Derived-No Effect Level
	EC50 - Median effective concentration
	EC-No European Community number
	ED - Endocrine disrupting properties
	EN - European Standard
	IARC - International Agency for Research on Cancer
	IATA - International Air Transport Association
	IMDG - International Maritime Dangerous Goods
	IOELV - Indicative Occupational Exposure Limit Value
	LC50 - Median lethal concentration
	LD50 - Median lethal dose
	LOAEL - Lowest Observed Adverse Effect Level
	N.O.S Not Otherwise Specified
	NOAEC - No-Observed Adverse Effect Concentration
	NOAEL - No-Observed Adverse Effect Level
	NOEC - No-Observed Effect Concentration
	OECD - Organisation for Economic Co-operation and Development
	OEL - Occupational Exposure Limit
	PBT - Persistent Bioaccumulative Toxic
	PNEC - Predicted No-Effect Concentration
	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
	(EC) No 1907/2006
	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
	SDS - Safety Data Sheet
	ThOD - Theoretical oxygen demand (ThOD)
	TRGS - Technical Rules for Hazardous Substances
	VOC - Volatile Organic Compounds
	TLM - Median Tolerance Limit
	vPvB - Very Persistent and Very Bioaccumulative
	WGK - Water Hazard Class
Other information	None.

Indication of changes			
Section	Changed item	Change	Comments
	Regulations Singapore	Modified	According to SS 586 Part 3 (2022)
1	Department issuing data specification sheet	Modified	E-mail address
1	Emergency number	Modified	

SDS\_SG\_Hilti

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



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According to SS 586 Part 3 (2022) Issue date: 05.02.2025 Revision date: 05.02.2025

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SECTION 1: Identification		
1.1. Product identifier		
Name	HUS4-MAX, B	
Product code	BU Anchor	
Chemical name	Adhesive Capsu	le HUS4-MAX, B
1.2. Other means of identification		
No additional information available		
1.3. Recommended use of the chemical and re	estrictions on ι	ISE
Recommended use	Adhesive anchor	capsule for anchor fastening in concrete
Restrictions on use	For professional	use only
1.4. Supplier's details		
Supplier		Department issuing data specification sheet
Hilti Far East Private Ltd.		Hilti Entwicklungsgesellschaft mbH
80 Pasir Panjang Road, #16-83/84 Mapletree Business	City Singapore	Hiltistraße 6 Kaufering Deutschland 86916
Singapur 117372		T +49 8191 906876
T +65 6777 7887 - F +65 6777 3057		product.compliance-anchors@hilti.com
sg-customerservice@hilti.com		
1.5. Emergency phone number		
Emergency number	GBK GmbH Glob	oal Regulatory Compliance
	+49 (0)6132-844	63

# **SECTION 2: Hazard identification**

# 2.1. Classification of the substance or mixture

Physical hazards Health hazards

Environmental hazards

Organic peroxides, Type F 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

# 2.2. GHS label elements, including precautionary statements

Hazard pictograms (GHS SG)

Signal word (GHS SG)

## Hazard statements (GHS SG)

H242 : Heating may cause a fire

H317 : May cause an allergic skin reaction

H319 : Causes serious eye irritation

H410 : Very toxic to aquatic life with long lasting effects

# **Precautionary statements**

### Prevention

- P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 : Wear eye protection, protective clothing, protective gloves.
- P262 : Do not get in eyes, on skin, or on clothing.





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### 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. 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

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Concentration (%)	Formula	Product identifier
dibenzoyl peroxide	10 – 25		CAS-No.: 94-36-0 EC-No.: 202-327-6 EC Index-No.: 617- 008-00-0

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. If eye irritation persists: Get medical advice/attention.	
Ingestion	If swallowed, seek medical advice immediately and show this container or label.	
4.2. Most important symptoms/effects, acute	e and delayed	
Symptoms/effects after skin contact	May cause an allergic skin reaction.	
Symptoms/effects after eye contact	Causes serious eye irritation.	
4.3. Indication of immediate medical attention	on and special treatment needed, if necessary	
Other medical advice or treatment	Treat symptomatically.	
SECTION 5: Fire-fighting measures		
5.1. Suitable extinguishing media		
Suitable extinguishing media	Water spray. Carbon dioxide. Dry powder. Alcohol-resistant foam.	
Unsuitable extinguishing media	Do not use a heavy water stream.	
5.2. Specific hazards arising from the chemical		
Fire hazard	May form flammable vapour-air mixtures. May decompose violently at elevated temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with alkalis or acids may cause dangerous decomposition. The products of combustion or self-accelerating decomposition may be toxic by inhalation. Will float and can be reignited on water surface.	

Vapours may form explosive mixture with air. Decomposition products may be a hazard to health.

06/02/2025

Explosion hazard

Reactivity in case of fire



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Hazardous decomposition products in case of fire	Formation of toxic gases is possible during heating or in case of fire. Corrosive vapours. Thermal decomposition can lead to the release of irritating gases and vapours.
5.3. Special protective actions for fire fighter	S
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	Spilled material may present a slipping hazard.	
6.1.1. For non-emergency personnel		
Protective equipment	Wear recommended personal protective equipment.	
Emergency procedures	Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition.	
	Explosive vapour/air mixtures may be formed.	
6.1.2. For emergency responders		
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.	
Emergency procedures	Ventilate area.	

# 6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up		
For containment	Collect spillage.	
Methods for cleaning up	Stop leak without risks if possible. Use non-sparking tools. Absorb and/or contain spill with	
	inert material, then place in suitable container. This material and its container must be	
	disposed of in a safe way, and as per local legislation.	
Other information	Dispose of materials or solid residues at an authorized site.	

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust, vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Prevent the build-up of electrostatic charge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including an	ny incompatibilities
Technical measures	Comply with applicable regulations.
Storage conditions	Keep container tightly closed. Keep cool. Protect from sunlight. Avoid contact with : Air. Store away from other materials. Expiry date: See date printed on box and capsule. Do not use if expiry date has been exceeded!.
Incompatible materials	Strong acids. Strong bases. Activator. reducing agents. solid salts and solutions containing heavy metals.
Storage temperature	-20 – 25 °C
Heat and ignition sources	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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# **SECTION 8: Exposure controls/personal protection**

3.1. Control parameters/Occupational exposure limits		
HUS4-MAX, B		
Singapore - Occupational Exposure Limits		
Local name	Benzoyl peroxide	
PEL (OEL TWA)	5 mg/m <sup>3</sup>	
Regulatory reference	WSH Regulations 2014	
dibenzoyl peroxide (94-36-0)		
Singapore - Occupational Exposure Limits		
Local name	Benzoyl peroxide	
PEL (OEL TWA)	5 mg/m <sup>3</sup>	
Regulatory reference	WSH Regulations 2014	

## 8.2. Appropriate engineering control measures

Appropriate engineering controls

Ensure adequate ventilation.

# 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.

Туре	Material	Permeation	Thickn	ess (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		ard			
Safety glasses		Droplet		clear		EN 166	6, EN 170

Skin and body protection

## Personal protective equipment symbol(s)



Wear suitable protective clothing

Environmental exposure controls Consumer exposure controls Avoid release to the environment. Avoid contact during pregnancy/while nursing.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	white
Odour	characteristic
Odour threshold	No data available
рН	≈7
Relative evaporation rate (butylacetate=1)	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available



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Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability	No data available
Vapour pressure	23.4 hPa
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	1.03 g/cm <sup>3</sup>
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, kinematic	0 mm²/s
Viscosity, dynamic	200 mPa·s
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available
Particle size	No data available
Particle size distribution	No data available
Particle shape	No data available
Particle aspect ratio	No data available
Particle specific surface area	No data available
0.2 Other information	

## 9.2. Other information

70 °C

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

SADT

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

## 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Can form explosive mixtures with air.

## 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

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

# 10.6. Hazardous decomposition products

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

# **SECTION 11: Toxicological information**

11.1. Acute toxicity	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified.
	pH: ≈ 7
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.



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Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
STOT-single exposure	Not classified	
STOT-repeated exposure	Not classified	
Aspiration hazard	Not classified	
HUS4-MAX, B		
Viscosity, kinematic	0 mm²/s	
Density	1.03 g/cm <sup>3</sup>	

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short–term (acute)	Very toxic to aquatic life.
Hazardous to the aquatic environment, long–term	Very toxic to aquatic life with long lasting effects.
(chronic)	
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
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)
12.2. Persistence and degradability	
HUS4-MAX, B	
Persistence and degradability	No additional information available
dibenzovi peroxide (94-36-0)	

Persistence and degradability Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.	dibenzoyl peroxide (94-36-0)	
	5,	, , , , , , , , , , , , , , , , , , , ,

# 12.3. Bioaccumulative potential

HUS4-MAX, B		
Bioaccumulative potential	No additional information available	
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).	



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# 12.4. Mobility in soil

HUS4-MAX, B				
Mobility in soil	No additional information available			
dibenzoyl peroxide (94-36-0)				
Surface tension	No data available (test not performed)			
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.			
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**

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number or ID n	umber		1
UN 3109	UN UN3109	UN UN3109	UN 3109
14.2. UN proper shipping	g name		1
ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide)	Organic peroxide type F, liquid (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoy peroxide)
Transport document descr	iption		,
UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide), 5.2, (D), ENVIRONMENTALLY HAZARDOUS	UN UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide), 5.2, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN UN3109 Organic peroxide type F, liquid (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS	UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	lass(es)		
5.2	5.2	5.2	5.2
5.2	5.2	5.2	5.2
14.4. Packing group			Γ
Not applicable	Not applicable	Not applicable	Not applicable



Safety Data Sheet According to SS 586 Part 3 (2022)

ADR	IMDG	IATA	RID
4.5. Environmental hazar	ds		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
lo supplementary information a	available		1
4.6. Special precautions for	or user		
verland transport			
assification code (ADR)	P1		
pecial provisions (ADR)	12	2, 274	
nited quantities (ADR)	12	5ml	
acking instructions (ADR)	P5	20, IBC520	
ixed packing provisions (ADR)	MF	24	
ansport category (ADR)	2		
orange plates		539 3109	
unnel restriction code (ADR)	D		
ransport by sea			
pecial provisions (IMDG)	12	2, 274	
mited quantities (IMDG)	12	5 ml	
acking instructions (IMDG)	P5	20	
mS-No. (Fire)	F	J	
nS-No. (Spillage)	S-I	R	
towage category (IMDG)	D		
towage and handling (IMDG)	SV	V1	
egregation (IMDG)	SG	335, SG36, SG72	
r transport			
CA packing instructions (IATA)			
CA max net quantity (IATA)	10		
AO packing instructions (IATA)			
pecial provisions (IATA)	A2	0, A150, A802	
ail transport			
pecial provisions (RID)		2, 274	
acking instructions (RID)	P5	20, IBC520	

Not applicable

# **SECTION 15: Regulatory information**

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

Regulation		Component / Mixture
Arms and Explosives Act	Not applicable	
Chemical Weapons Prohibition Act		
Environmental Protection and Management (Air Impurities) Regulations		



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Regulation		Component / Mixture
Environmental Protection and Management Act (Hazardous Substances)		
Environmental Public Health (Quality of Piped Drinking Water) Regulations		
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations		
Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations	Maritime and Port Authority-Dangerous Goods	Organic peroxide type B, solid
Misuse of Drugs Act	Not applicable	
Poisons Act		
Poisons Rules		
Hazardous waste (Control of export, import and transit) Act		
Strategic goods (Control) Act		

# 15.2. International regulations

No additional information available

# 15.3 Chemical inventory status

No additional information available

lssue date	05/02/2025
Revision date	05/02/2025
Abbreviations and acronyms	CAS-No Chemical Abstract Service number
	ADN - European Agreement concerning the International Carriage of Dangerous Goods by
	Inland Waterways
	ADR - European Agreement concerning the International Carriage of Dangerous Goods by
	Road
	ATE - Acute Toxicity Estimate
	BCF - Bioconcentration factor
	BLV - Biological limit value
	BOD - Biochemical oxygen demand (BOD)
	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	COD - Chemical oxygen demand (COD)
	DMEL - Derived Minimal Effect level
	DNEL - Derived-No Effect Level
	EC50 - Median effective concentration
	EC-No European Community number
	ED - Endocrine disrupting properties
	EN - European Standard
	IARC - International Agency for Research on Cancer
	IATA - International Air Transport Association
	IMDG - International Maritime Dangerous Goods
	IOELV - Indicative Occupational Exposure Limit Value
	LC50 - Median lethal concentration
	LD50 - Median lethal dose
	LOAEL - Lowest Observed Adverse Effect Level
	N.O.S Not Otherwise Specified
	NOAEC - No-Observed Adverse Effect Concentration
	NOAEL - No-Observed Adverse Effect Level



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NOEC - No-Observed Effect Concentration				
OECD - Organisation for Economic Co-operation and Development				
OEL - Occupational Exposure Limit				
PBT - Persistent Bioaccumulative Toxic				
PNEC - Predicted No-Effect Concentration				
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation				
(EC) No 1907/2006				
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail				
SDS - Safety Data Sheet				
ThOD - Theoretical oxygen demand (ThOD)				
TRGS - Technical Rules for Hazardous Substances				
VOC - Volatile Organic Compounds				
TLM - Median Tolerance Limit				
vPvB - Very Persistent and Very Bioaccumulative				
WGK - Water Hazard Class				
None.				

Other information

Indication of changes					
Section	Changed item	Change	Comments		
	Regulations Singapore	Modified	According to SS 586 Part 3 (2022)		
1	Department issuing data specification sheet	Modified	E-mail address		
1	Emergency number	Modified			

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