

according to MoL regulation (10702052242)

Issue date: 2025/03/31 Revision date: 2025/03/31 Supersedes: 2022/01/10 Version: 1.4

1. Identification of the chemical and of the business entity

Chemical name HVU2
Product code BU Anchor

A A A B A

Other Names

Recommended use Adhesive anchor capsule for anchor fastening in concrete

Restrictions on use For professional use only

Names, addresses, and phone numbers of manufacturer, importer or supplier

Supplier

Hilti Taiwan Co., Ltd.

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Department issuing data specification sheet

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Hazard(s) identification

GHS classification (Taiwan)

Health hazards Skin sensitization, Category 1

Toxic to reproduction, Category 1B

Environmental hazards Hazardous to the aquatic environment - Acute Hazard, Category 2

Hazardous to the aquatic environment - Chronic Hazard, Category 2

Label content

Hazard pictograms (GHS TW)





GHS07, GHS08, GHS09

Signal word (GHS TW) Danger

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

(H360) May damage fertility or the unborn child

(H411) 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.

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(P305+P351+P338) IF IN EYES: Rinse cautiously with water for several minutes. Response Precautionary Statements

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

 ${\it classification}$

3. Composition/information on ingredients

Substance:

Not applicable

Mixture:

Chemical properties

Refer to Section 9

Name	CAS-No.	Concentrati on	Classification according to the United Nations GHS
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	4 - < 8	Serious eye damage/eye irritation, Category 2A, H319 Skin sensitization, Category 1, H317 Hazardous to the aquatic environment - Acute Hazard, Category 3, H402 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2-甲基-2-丙烯酸-1,4-丁二醇二丙烯酸酯)	2082-81-7	2.5 - 5	Skin sensitization, Category 1, H317
dibenzoyl peroxide(過氧化二苯甲醯)	94-36-0	0.5 - < 1.5	Organic peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitization, Category 1, H317 Hazardous to the aquatic environment - Acute Hazard, Category 1, H400 Hazardous to the aquatic environment - Chronic Hazard, Category 1, H410
dicyclohexyl phthalate (鄰苯二甲酸二環己酯)	84-61-7	1 - 2.5	Skin sensitization, Category 1, H317 Toxic to reproduction, Category 1B, H360 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412



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Name	CAS-No.	Concentrati on	Classification according to the United Nations GHS
1,1'-(p-tolylimino)dipropan-2-ol (1,1'-[(4-甲基苯基)亞氨基]二-2-丙醇)	38668-48-3		Acute toxicity (Oral), Category 2, H300 Serious eye damage/eye irritation, Category 2A, H319 Hazardous to the aquatic environment - Acute Hazard, Category 3, H402 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412

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

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

Notes to physician

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

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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

fighting any chemical fire - Prevent fire fighting water from entering the

 ${\tt environment}$

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

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

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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

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.

Storage

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

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

Control parameters

HVU2 M8 - M30		
Taiwan - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
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	
OEL TWA	5 mg/m³	
Regulatory reference	Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace (2018.03.14 Modified)	

Personal protective equipment

General:

Personal protective equipment:

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

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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. 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)	6 (> 480 minutes)	0, 12		EN ISO 374

Eye protection:

Eye protection Wear security glasses which protect from splashes

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

Skin and body protection:

Skin and body protection

Wear suitable protective clothing

Personal protective equipment symbol(s):







Hygiene measures:

Do not eat, drink or smoke when using this product.

Always wash hands after handling the product

 ${\tt Contaminated \ work \ clothing \ should \ not \ be \ allowed \ out \ of \ the \ workplace.}$

Wash contaminated clothing before reuse.

9. Physical and chemical properties

Appearance foil capsule
Physical state Solid

Colour resin: yellowish liquid

hardener: white powder

Odour characteristic
Odour threshold [ppm] No data available
pH No data available
Evaporation rate No data available
Melting point No data available
Boiling point No data available

Flash point > 101 ° C (DIN EN ISO 1523)

Auto-ignition temperature

Decomposition temperature

SADT

SOURCE

Flammability (solid, gas)

No data available

No data available

No data available

Vapour pressure 0.1 hPa

Relative vapour density at 20° C $\,$ $\,$ No data available

Density 2.95 g/cm³

Solubility insoluble in water.

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Partition coefficient n-octanol/water (Log

Kow)

Viscosity, kinematic 20 mm²/s (ISO 2431) Viscosity, kinematic (calculated value) 20 mm²/s (ISO 2431)

(40 ° C)

Explosive limits (vol %) No data available

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

No data available

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)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

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)	
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	
1, 1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
LD50 oral rat	25 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
dicyclohexyl phthalate (84-61-7)		
LD50 oral rat	41400 mg/kg (Rat)	
LD50 oral	40000 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)	

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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 May damage fertility or the unborn child.

STOT-single exposure

STOT-single exposure Not classified

STOT-repeated exposure

STOT-repeated exposure Not classified

Aspiration hazard

Aspiration hazard Not classified
Viscosity, kinematic 20 mm²/s (ISO 2431)

12. Ecological information

Ecotoxicity

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

Hazardous to the aquatic environment, Toxic to aquatic life.

short - term (acute)

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)
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)
2-Propenoic acid, 2-methyl-, 1,4-butanediyl	ester (2082-81-7)
LC50 - Other aquatic organisms [1]	9.79 mg/1
ErC50 algae	9.79 mg/1
1,1'-(p-tolylimino)dipropan-2-o1 (38668-48-	3)
LC50 - Fish [1]	$pprox~17~{ m mg/l}$
LC50 - Other aquatic organisms [1]	245 mg/l

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EC50 - Crustacea [1]	28.8 mg/l
dicyclohexyl phthalate (84-61-7)	
LC50 - Fish [1]	> 10000 mg/l (96 h; Brachydanio rerio; Static system)
LC50 - Other aquatic organisms [1]	1.04 mg/l
EC50 - Crustacea [1]	2 mg/1
ErC50 algae	2 mg/1

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

Hazardous to the aquatic environment, long-

Toxic to aquatic life with long lasting effects.

term (chronic)

dibenzoyl peroxide (94-36-0)		
NOEC chronic fish	0.001 mg/1	
2-Propenoic acid, 2-methyl-, 1,4-butanediy	l ester (2082-81-7)	
NOEC (chronic)	20 mg/1	
NOEC chronic crustacea	5.09 mg/1	
dicyclohexyl phthalate (84-61-7)		
NOEC chronic crustacea	0.181 mg/l	

$Additional\ ecotoxicological\ information$

dibenzoyl peroxide (94-36-0)		
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)	
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)	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
NOEC (acute)	7.51 mg/l	
1, 1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
NOEC (acute)	57.8 mg/l	
dicyclohexyl phthalate (84-61-7)		
NOEC (acute)	> 2 mg/1	

Persistence and degradability

dibenzoyl peroxide (94-36-0)		
Persistence and degradability	Readily biodegradable in water Not established May cause long-term adverse effects in the environment	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Persistence and degradability	Readily biodegradable in water	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Biodegradation	84 %	

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dicyclohexyl phthalate (84-61-7)	
	Readily biodegradable in water Forming sediments in water
ThOD	2.376 g O ₂ /g substance

Bioaccumulative potential

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 Son and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)	
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)	
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	
dicyclohexyl phthalate (84-61-7)		
BCF - Fish [1]	640 (Pisces)	
Partition coefficient n-octanol/water (Log Pow)	3 - 6.2	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5)	

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.		
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.		

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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	
dicyclohexyl phthalate (84-61-7)		
Partition coefficient n-octanol/water (Log Pow)	3 - 6.2	

Other adverse effects

Ozone Not classified

13. Disposal considerations

Waste treatment methods

Ecological information 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
or having a net mass per single or ir		taining a net quantity per single or inn ds, are not subject to any other provis 4.1.1.8.	
14.1. UN number or ID number			
UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping nam	e		
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
	9		

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ADR	IMDG	IATA	RID	
14.4. Packing group	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)

Special provisions (ADR)

Limited quantities (ADR)

Packing instructions (ADR)

Mixed packing provisions (ADR) Transport category (ADR)

Orange plates

M7

274, 335, 375, 601

5kg

P002, IBC08, LP02, R001

MP10

90

Tunnel restriction code (ADR)

Transport by sea

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

Limited quantities (IMDG) 5 kg LP02, P002 Packing instructions (IMDG) EmS-No. (Fire) F-A

EmS-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

15. Regulatory information

Applicable regulations

Occupational Safety and Health Act

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- 2. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
- 3. Traffic Safety Rule
- 4. Not listed on the United States TSCA (Toxic Substances Control Act) inventory

16. Other information

Literature references

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 1.4

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 2022/01/10

Section	Changed item	Change	Comments
1	Supplier Information	Modified	

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

Other information

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

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