

Trade name: WIDOPAN-Hardener

Current version : 7.4.0, issued: 13.09.2024

Replaced version: 7.3.0, issued: 10.02.2023

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

WIDOPAN-Hardener

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Hardener

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Widopan Produkte GmbH
Ostereichen 3
D-21714 Hammah

Telephone no. +49 (0) 4144 69821-0

Fax no. +49 (0) 4144 69821-20

Information provided by / telephone

+49 (0) 4144 69821-0

Advice on Safety Data Sheet

sdb_info@umco.de

Details of the importer

Address

Widopan Limited
System House
Horndon Industrial Park
24 Station Rd
West Horndon
Brentwood
CM13 3XL

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Eye Irrit. 2; H319

Org. Perox. D; H242

Repr. 1B; H360D

Skin Sens. 1; H317

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

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2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS08



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:dicyclohexyl-phthalate
dibenzoyl peroxide**Hazard statement(s)**

H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P411+P235	Store at temperatures not exceeding +30 °C. Keep cool.

Supplemental label elements

"Restricted to professional users"

2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Mixture (preparation)

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	dicyclohexyl-phthalate		

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	84-61-7 201-545-9 607-719-00-4 01-2119978223-34	Skin Sens. 1; H317 Repr. 1B; H360D Aquatic Chronic 3; H412	>= 50.00 - < 70.00	wt%
2	dibenzoyl peroxide			
	94-36-0 202-327-6 617-008-00-0 01-2119511472-50	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25.00 - < 50.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	-	M = 10	M = 10

No	Route, target organ, concrete effect
1	H360D oral; -; -

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Seek medical advice immediately. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam; Dry chemical extinguisher; Carbon dioxide; Water; Dry sand

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Benzoic acid; benzene

5.3 Advice for firefighters

Use self-contained breathing apparatus. Cool endangered containers with water in case of fire. Wear protective clothing. Defeat developing combustible gases with water spray.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid dust formation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Damp, pick up mechanically. When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use only explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Prevent drying-out

Recommended storage temperature

Value max. 30 °C

Requirements for storage rooms and vessels

Keep only in the original container.

Appropriate Material stainless steel; PVC

Incompatible products

Do not store together with foodstuffs. Do not store together with: Reducing agents; Acids; Alkalis; heavy metal compounds

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
List of approved workplace exposure limits (WELs) / EH40			

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	Dicyclohexyl phthalate		
	WEL long-term (8-hr TWA reference period)	5	mg/m ³
2	dibenzoyl peroxide	94-36-0	202-327-6
	List of approved workplace exposure limits (WELs) / EH40		
	Dibenzoyl peroxide		
	WEL long-term (8-hr TWA reference period)	5	mg/m ³

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	dicyclohexyl-phthalate			84-61-7 201-545-9	
	dermal	Long term (chronic)	systemic	0.5	mg/kg
	inhalative	Long term (chronic)	systemic	35.2	mg/m ³
	inhalative	Short term (acut)	systemic	35.2	mg/m ³
2	dibenzoyl peroxide			94-36-0 202-327-6	
	dermal	Long term (chronic)	systemic	13.3	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	39	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	dicyclohexyl-phthalate			84-61-7 201-545-9	
	oral	Long term (chronic)	systemic	0.25	mg/kg
	oral	Short term (acut)	systemic	0.25	mg/kg
	dermal	Long term (chronic)	systemic	0.25	mg/kg
	inhalative	Short term (acut)	systemic	0.87	mg/m ³
2	dibenzoyl peroxide			94-36-0 202-327-6	
	oral	Long term (chronic)	systemic	2	mg/kg bw/day
	dermal	Long term (chronic)	systemic	17	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	3.5	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	dicyclohexyl-phthalate		84-61-7 201-545-9	
	water	fresh water	1.04	µg/L
	water	marine water	0.104	µg/L
	water	fresh water sediment	1.06	mg/kg
	water	marine water sediment	0.106	mg/kg
	soil	-	0.31	mg/kg
	sewage treatment plant	-	10	mg/L
	secondary poisoning	mammalian	133	g/kg
	with reference to: food			
2	dibenzoyl peroxide		94-36-0 202-327-6	
	water	fresh water	0.02	µg/L
	water	marine water	0.002	µg/L
	water	fresh water sediment	0.013	mg/kg dry weight
	water	marine water sediment	0.001	mg/kg dry weight

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soil	-	0.003	mg/kg dry weight
sewage treatment plant	-	0.35	mg/L

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Respiratory filter (part): P1

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material neoprene

Appropriate Material Synthetic rubber

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation	
solid	
Form	
Powder	
Colour	
white	
Odour	
weak	
pH value	
Value	7
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
Comments	SADT: 60°C
Flash point	
Not applicable	

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Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	1.23	g/cm ³	
Reference temperature	20	°C	
Bulk density			
Value	630	kg/m ³	
Reference temperature	20	°C	
Solubility in water			
Comments	insoluble		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
	log Pow	4.82	
	Reference temperature	25	°C
	Method	OECD 117	
	Source	ECHA	
2	dibenzoyl peroxide	94-36-0	202-327-6
	log Pow	3.2	
	Reference temperature	22	°C
	Method	OECD 107	
	Source	ECHA	
Kinematic viscosity			
Not applicable			
Particle characteristics			
No data available			

9.2 Other information

Other information
Active oxygen content: 3.24 – 3.47 %

SECTION 10: Stability and reactivity

10.1 Reactivity

sensitive to exothermic decomposition, decomposition is initiated by heat, contact with impurities (e.g. acids, heavy metal compounds, amines), friction or impact

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10.2 Chemical stability

under heat rapidly disintegrate

10.3 Possibility of hazardous reactions

SADT (self accelerating decomposition temperature) possible at temperature above approximately +60°C, vapour may form explosive mixtures with air

10.4 Conditions to avoid

Temperatures > 25°C; Risk of explosions in dry state. Heat, naked flames and other ignition sources. Protect from light.

10.5 Incompatible materials

Acids; Bases; Heavy metals; Reducing agents; rust; iron; copper

10.6 Hazardous decomposition products

Benzoic acid; Benzene; Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
2	dibenzoyl peroxide	94-36-0	202-327-6
LD50	>	2000	mg/kg bodyweight
Species	mouse		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute dermal toxicity	
No data available	

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
LC50		24.3	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
Evaluation	low-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
Evaluation	irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6

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Route of exposure	Skin
Species	mouse
Method	OECD 429
Source	ECHA
Evaluation	sensitizing
Evaluation/classification	Based on available data, the classification criteria are met.

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
Type of examination	In vitro mammalian cell gene mutation test		
Species	mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
Route of exposure	oral		
Type of examination	Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

Endocrine disrupting properties	
No data available	

11.2 Information on other hazards**Other information**

Exercise customary precautions when handling chemicals.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
LC50	>	2	mg/l
Duration of exposure		96	h
Species	Oryzias latipes		
Method	OECD 203		
Source	ECHA		
2	dibenzoyl peroxide	94-36-0	202-327-6
LC50		0.0602	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are met.

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
EC50		0.11	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Toxicity to Daphnia (chronic)
No data available

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
EC50	>	2	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	dibenzoyl peroxide	94-36-0	202-327-6
EC50		0.071	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Toxicity to algae (chronic)
No data available

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	dibenzoyl peroxide	94-36-0	202-327-6
EC50		35	mg/l
Duration of exposure		30	min
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
Type	aerobic biodegradation		
Value		68.5	%
Duration		28	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
2	dibenzoyl peroxide	94-36-0	202-327-6
Value		71	%
Duration		28	d
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		

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12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
BCF		85	
Method		QSAR	
Source		ECHA	
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9
log Pow		4.82	
Reference temperature		25 °C	
Method		OECD 117	
Source		ECHA	
2	dibenzoyl peroxide	94-36-0	202-327-6
log Pow		3.2	
Reference temperature		22 °C	
Method		OECD 107	
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
WIDOPAN-Hardener	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR/RID/ADN

UN3106

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IMDG UN3106
 ICAO-TI / IATA UN3106

14.2 UN proper shipping name

ADR/RID/ADN ORGANIC PEROXIDE TYPE D, SOLID

IMDG ORGANIC PEROXIDE TYPE D, SOLID

ICAO-TI / IATA Organic peroxide type D, solid

14.3 Transport hazard class(es)

ADR/RID/ADN - Class 5.2

Label 5.2

Classification code P1

Tunnel restriction code D

IMDG - Class 5.2

Label 5.2

ICAO-TI / IATA - Class 5.2

Label 5.2

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

ADR/RID/ADN Symbol "fish and tree"

IMDG Symbol "fish and tree"

EmS F-J, S-R

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU regulations**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	dicyclohexyl-phthalate	84-61-7	201-545-9

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	dibenzoyl peroxide	94-36-0	202-327-6	75
2	dicyclohexyl-phthalate	84-61-7	201-545-9	30, 75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: E1, P6b

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If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Other regulations

Observe employment restrictions for young people.
Observe employment restrictions for women of child-bearing age.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H241	Heating may cause a fire or explosion.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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