

FIS V Plus 410 C

Kit Safety Information Sheet (SIS)

SECTION 1: Kit identification

1.1 Kit identifier

Trade name : FIS V Plus 410 C

1.2 Details of the supplier of the Kit safety information sheet

fischerwerke GmbH & Co. KG Klaus-Fischer-Straße 1 72178 Waldachtal - Germany T +49(0)7443 12-0 - F +49(0)7443 12-4222 info-sdb@fischer.de - www.fischer.de

SECTION 2: General information

Storage : 5 - 25°C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page This product is a Kit which consists of several independently packaged components

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

SECTION 3: Kit contents

Name	Classification according to GHS
FIS V Plus 410 C Component A (Mortar)	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
FIS V Plus 410 C Component B (Hardener)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410





GHS Safety Data Sheet

Issue date: 7/11/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

: FIS V Plus 410 C Component A (Mortar) Trade name

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use, Professional use, Industrial use

Use of the substance/mixture composite mortar

1.2.2. Uses advised against

Restrictions on use Observe technical data sheet

1.3. Details of the supplier of the safety data sheet

Manufacturer

fischerwerke GmbH & Co. KG Klaus-Fischer-Straße, 1 72178 Waldachtal Germany

T +49(0)7443 12-0 - F +49(0)7443 12-4222 info-sdb@fischer.de - www.fischer.de

AnchorMark Pty. Ltd. Unit 1, 61 Waterview Close Dandenong South VIC 3175

Australia

Marketer

T+61 (0) 3 97992096 F+61 (0) 3 97992696

Email: info@anchormark.com.au

1.4. Emergency telephone number

Emergency number : FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE 13 11 26

THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS

Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

2.2. Label elements

Labelling according to GHS

Hazard pictograms





GHS05

GHS07

Signal word : Danger

1,4-butanediol dimethacrylate; Hydroxypropyl methacrylate; portland cement Contains

Hazard statements H315 - Causes skin irritation

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

Precautionary statements P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear protective gloves, protective clothing/eye protection/face protection.

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

lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

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SECTION 3: Composition/information on ingredients

Hazardous ingredients

N a m e	Product identifier	%	Classification according to GHS
portland cement	CAS-No.: 65997-15-1	15 – 20	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
1,4-butanediol dimethacrylate	CAS-No.: 2082-81-7	10 – 15	Skin Sens. 1B, H317
Hydroxypropyl methacrylate	CAS-No.: 27813-02-1	5 – 10	Eye Irrit. 2, H319 Skin Sens. 1B, H317

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

Other information : Do not allow water used to extinguish fire to enter drains, ground or waterways. Avoid direct discharge

into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material.

Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Not expected to present a significant hazard under anticipated conditions of normal use. In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit.

Precautions for safe handling

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. Breakthrough time: refer to the recommendations of the supplier. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Butyl rubber	2 (> 30 minutes)			

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid Physical state light brown. Appearance : Paste. Odour : slight. Odour threshold : Not available Melting point Not applicable Freezing point : Not available Boiling point : Not available Flammability Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable : > 100 °C Flash point Auto-ignition temperature Not applicable Decomposition temperature : Not available

pH : Not applicable - Practically insoluble in : Water pH solution : Nicht anwendbar - Praktisch unlöslich in: Wasser

Viscosity, kinematic : Not applicable

Viscosity, dynamic : 100000 - 170000 mPa·s at 20 °C

Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 1.7 – 1.8 g/ml at 20 °C

Relative density : Not available
Relative vapour density at 20°C : Not applicable
Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11 1	Information	on hazard	claceae

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Acute toxicity (darmal)	. Not diastilled
Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified
1,4-butanediol dimethacryla	
•	
LD50 oral rat	10066 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	> 3000 mg/kg bodyweight
Hydroxypropyl methacrylate	(27813-02-1)
LD50 oral rat	> 2000 mg/kg bodyweight (OECD-Methode 401)
LD50 dermal rabbit	> 5000 mg/kg bodyweight
portland cement (65997-15-1)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Neither mortality nor clinical signs of toxicity were observed with the given dose
LC50 Inhalation - Rat	> 5 g/m³ Neither mortality nor clinical signs of toxicity were observed with the given dose
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable - Practically insoluble in : Water
portland cement (65997-15-1)
рН	12
Serious eye damage/irritation	: Causes serious eye damage. pH: Not applicable - Practically insoluble in : Water
portland cement (65997-15-1)
рН	12
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
portland cement (65997-15-1)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
1,4-butanediol dimethacryla	te (2082-81-7)
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

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NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Hydroxypropyl methacrylate (2	
LOAEC (inhalation, rat, gas, 90 days)	300 ppm rat (OECD 413 method) 90 d
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study). Remarks on results: other:
Aspiration hazard	: Not classified
1,4-butanediol dimethacrylate (2082-81-7)
Viscosity, kinematic	5.29 mm²/s 20°C
Hydroxypropyl methacrylate (2	7813-02-1)
Viscosity, kinematic	8.88 mm ² /s (20°C) (DIN 51562)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the
	environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified Hazardous to the aquatic environment, long–term (chronic) : Not classified

Not rapidly degradable

1,4-butanediol dimethacrylate (2082-81-7)		
EC50 - Crustacea [1]	28.4 mg/l Daphnia magna (Water flea)	
EC50 72h - Algae [1]	9.79 mg/l Desmodesmus subspicatus	
LOEC (chronic)	13.5 mg/l Daphnia magna (Water flea) 21 d	
NOEC chronic crustacea	5.09 mg/l Daphnia magna (Water flea)	
NOEC chronic algae	4.97 mg/l Desmodesmus subspicatus	
Hydroxypropyl methacrylate (27813-02-1)		

Hydroxypropyl methacrylate (27813-02-1)		
LC50 - Fish [1]	493 mg/l Leuciscus idus (golden orfe) 48 h	
EC50 - Crustacea [1]	> 143 mg/l Daphnia magna (Water flea), (OECD 202 method)	
EC50 72h - Algae [1]	> 97.2 mg/l Pseudokirchneriella subcapitata (OECD 201 method)	
NOEC chronic crustacea	45.2 mg/l Daphnia magna (Water flea) (OECD 201 method) 21 d	
NOEC chronic algae	97.2 mg/l Pseudokirchneriella subcapitata (OECD-Methode 201) 72 h	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

1,4-butanediol dimethacrylate (2082-81-7)		
Partition coefficient n-octanol/water (Log Pow)	3.1 20°C	
Hydroxypropyl methacrylate (27813-02-1)		
Partition coefficient n-octanol/water (Log Pow)	0.97 literature	

12.4. Mobility in soil

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Additional information

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

Only pass on empty containers/packaging for recycling.
Not classified as hazardous waste when part A and part B are mixed and are fully cured.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA		
14.1. UN number or ID number				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated		Not regulated	
14.3. Transport hazard class(es)				
Not regulated	Not regulated		Not regulated	
14.4. Packing group				
Not regulated	Not regulated		Not regulated	
14.5. Environmental hazards				
Not regulated	Not regulated		Not regulated	
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

National regulations

No additional information available

SECTION 16: Other information

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		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		

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Abbreviations and	acronyms:
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EN	European Standard
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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full	tovt	ο f	н.	and	EUH-statements:
	1671	•		anu	Luii-statements.

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to GHS:			
Skin Irrit. 2	H315	Calculation method	
Eye Dam. 1	H318	Calculation method	

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Classification and	procedure used to o	derive the classification for mixtures according to GHS:
Skin Sens. 1	H317	Calculation method

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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Issue date: 09/08/2023 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

: FIS V Plus 410 C Component B (Hardener) Trade name

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture composite mortar

1.2.2. Uses advised against

Restrictions on use Observe technical data sheet

1.3. Details of the supplier of the safety data sheet

Marketer Manufacturer AnchorMark Pty. Ltd.

fischerwerke GmbH & Co. KG Klaus-Fischer-Straße, 1 72178 Waldachtal Germany

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Unit 1, 61 Waterview Close

Dandenong South VIC 3175

1.4. Emergency telephone number

Emergency number : FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE 13 11 26

THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

Australia

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS

Eye Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GHS

Hazard pictograms





GHS07 GHS09

Signal word

2-methylisothiazol-3(2H)-one; dibenzoyl peroxide; benzoyl peroxide Contains

Hazard statements H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear eye protection, protective gloves.

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SECTION 3: Composition/information on ingredients

Hazardous ingredients

N a m e	Product identifier	%	Classification according to GHS
dibenzoyl peroxide; benzoyl peroxide	CAS-No.: 94-36-0	20 – 25	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4	0.0015 - 0.01	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.384 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.384 mg/l/4h) Skin Corr. 1B, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

Other information : Do not allow water used to extinguish fire to enter drains, ground or waterways. Avoid direct discharge

into drains.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use. In the event that

dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective

equipment. Avoid breathing vapours.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the

workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. Breakthrough time: refer to the recommendations of the supplier. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Butyl rubber	2 (> 30 minutes)			

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid dark grey. Colour Appearance Paste. Odour : slight. Odour threshold : Not available Melting point Not available Freezing point : Not available Boiling point : Not available : Not available Flammability Lower explosion limit Not applicable : Not applicable Upper explosion limit Flash point : > 100 °C Auto-ignition temperature : Not applicable Decomposition temperature Not available : Not available Hq pH solution : Not available Viscosity, kinematic Not applicable Viscosity, dynamic > 80000 mPa·s Solubility Not available Partition coefficient n-octanol/water (Log Kow) : Not available Not available Vapour pressure at 50°C : Not available Density 1.4 - 1.6 g/cm³ Relative density Not available Relative vapour density at 20°C Not applicable

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Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

2-methylisothiazol-3(2H)-one (2682-20-4)		
LD50 oral rat	582 mg/kg (OECD 401 method)	
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)	

LC50 Inhalation - Rat	0.384 mg/l (OECD 403 method)
dibenzoyl peroxide; benzoyl peroxide	(94-36-0)
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LC50 Inhalation - Rat	> 24.3 mg/l (OECD 403 method)

Skin corrosion/irritation : Not classified

2-meth	rylisot	hiazol-3	3(2H)-one	(2682-20-4))

pH 2.58 Temp.: 25 °C Concentration: 50 g/L

Serious eye damage/irritation : Causes serious eye irritation

$\hbox{2-methylisothiazol-3(2H)-one (2682-20-4)}$

pH 2.58 Temp.: 25 °C Concentration: 50 g/L

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 : Not classified

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11.2. Information on other hazards

No additional information available

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 (chronic) : Very toxic to aquatic life with long lasting effects.

Not rapidly degradable

to rapidly degradable				
2-methylisothiazol-3(2H)-one (2682-20	2-methylisothiazol-3(2H)-one (2682-20-4)			
LC50 - Fish [1]	4.77 mg/l (OECD 203 method)			
EC50 - Crustacea [1]	0.934 mg/l (OECD 202 method)			
EC50 72h - Algae [1]	0.103 mg/l (OECD 201 method)			
NOEC chronic fish	4.93 mg/l (OECD 210 method)			
NOEC chronic crustacea	0.044 mg/l (OECD 211 method)			
NOEC chronic algae	0.05 mg/l (OECD 201 method)			
dibenzoyl peroxide; benzoyl peroxide (94-36-0)				
LC50 - Fish [1]	0.0602 mg/l Oncorhynchus mykiss (Rainbow trout)			
EC50 - Crustacea [1]	0.11 mg/l Daphnia magna (Water flea)			
EC50 72h - Algae [1]	0.06 mg/l			

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Only pass on empty containers/packaging for recycling.

Additional information : Not classified as hazardous waste when part A and part B are mixed and are fully cured.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
Special provision(s) applied: 375	Special provision(s) applied: 969	Special provision(s) applied : A197

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

14.1. UN number or ID number

14.1. ON Hamber of 15 Hamber			
UN 3077	UN 3077	UN 3077	
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide; benzoyl peroxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide; benzoyl peroxide)			

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ADR	IMDG	IATA	
Transport document description			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide; benzoyl peroxide), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide; benzoyl peroxide), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide; benzoyl peroxide), 9, III	
14.3. Transport hazard class(es)			
9	9	9	
2	2	2	
14.4. Packing group			
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	
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M7

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

Limited quantities (ADR) : 5kg Excepted quantities (ADR)

: E1 : P002, IBC08, LP02, R001 Packing instructions (ADR)

Special packing provisions (ADR) : PP12, B3 : MP10 Mixed packing provisions (ADR) Transport category (ADR) 3 Special provisions for carriage - Packages (ADR) V13

Orange plates

90 3077

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) : PP12 Special packing provisions (IMDG) EmS-No. (Fire) F-A : S-F EmS-No. (Spillage)

Air transport

PCA packing instructions (IATA) : 956 PCA max net quantity (IATA) : 400kg CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg

Special provisions (IATA) A97, A158, A179, A197, A215

ERG code (IATA) 9L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

National regulations

No additional information available

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SECTION 16: Other information

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	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
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	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:

T . O.(1 1 1 ii)		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	

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Full text of H- and EUH-statements:		
Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Serious eye damage/eye irritation, Category 2		
Heating may cause a fire or explosion.		
Toxic if swallowed.		
Toxic in contact with skin.		
Causes severe skin burns and eye damage.		
May cause an allergic skin reaction.		
Causes serious eye irritation.		
Fatal if inhaled.		
Very toxic to aquatic life.		
Very toxic to aquatic life with long lasting effects.		
Organic Peroxides, Type B		
Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin sensitisation, Category 1		
Skin sensitisation, category 1A		

Classification and procedure used to derive the classification for mixtures according to GHS		
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.