Safety Data Sheet MIKROS 001



Safety Data Sheet dated 02/12/2024 version 4

This Safety Data Sheet is prepared voluntarily: it is not required according to Article 31 of Regulation (EC) No 1907/2006. As amended by UK REACH Regulation SI 2019/758.

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

1.1. Product identifier

Mixture identification:

Trade name: MIKROS 001
Trade code: COL662

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

Recommended use: Water-based primer in microemulsion for walls

1.3. Details of the supplier of the safety data sheet

Company: FASSA Srl

Via Lazzaris, 3 - 31027 Spresiano (TV) - Italy

Tel. +39 0422 7222
Fax +39 0422 887509
Imported in the UK:
FASSA UK LTD

Ashchurch Business Centre,

Alexandra Way, Ashchurch, Tewkesbury GL20 8TD- UK

Tel. +44 (0) 1684.212272

Responsable: laboratorio.spresiano@fassabortolo.it

1.4. Emergency telephone number

NHS 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1). May produce an allergic reaction.

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

The product has been classified according to Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

NΑ

3.2. Mixtures

Mixture identification: MIKROS 001

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Hazardous components within the meaning of the CLP regulation and related classification:

Qty Name Ident. Numb. Classification Registration Number:				
Qty ≥0.5 - <1 %	Benzene, 1,1'-oxybis-,		Eye Dam. 1, H318; Repr. 2,	01-2119492361-39-xxxx
20.3 - <1 70	tetrapropylene derivs., sulfonated, sodium salts		H361fd; Aquatic Chronic 2, H411	01-2119492301-39-
≥0.0036 - <0.036 %	1,2-benzisothiazol-3(2H)-one	CAS:2634-33-5 EC:220-120-9 Index:613-088- 00-6	H302 Skin Irrit. 2, H315 Eye Dam.	
			Specific Concentration Limits: $C \ge 0.036\%$: Skin Sens. 1A H317	
			Acute Toxicity Estimate: ATE - Oral: 450mg/kg bw ATE - Inhalation (Dust/mist): 0.21mg/l	
≥0.00015 - <0.0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		Acute Tox. 2, H310 Acute Tox. 2, H330 Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071	
			Specific Concentration Limits: $0.6\% \le C < 100\%$: Skin Corr. 1C H314 $0.06\% \le C < 0.6\%$: Skin Irrit. 2 H315 $0.6\% \le C < 100\%$: Eye Dam. 1	
			H318 $0.06\% \le C < 0.6\%$: Eye Irrit. 2 H319 $0.0015\% \le C < 100\%$: Skin Sens. 1A H317	
			Acute Toxicity Estimate: ATE - Oral: 66mg/kg bw ATE - Dermal: 141mg/kg bw ATE - Inhalation (Dust/mist): 0.17mg/l	
≥0.00015 - <0.0015 %	2-methylisothiazol-3(2H)-one	CAS:2682-20-4 EC:220-239-6 Index:613-326- 00-9	Acute Tox. 2, H330 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10, EUH071	
			Specific Concentration Limits: $0.0015\% \le C < 100\%$: Skin Sens. 1A H317	
			Acute Toxicity Estimate: ATE - Oral: 120mg/kg bw ATE - Dermal: 300mg/kg bw ATE - Inhalation (Dust/mist): 0.134mg/l	

 $Classifications \ according \ to \ Regulation \ (EC) \ No \ 1272/2008 \ (CLP) \ as \ amended \ by \ UK \ CLP \ Regulation, \ UK \ SI \ 2019/720 \ and \ UK \ SI \ 2020/1567.$

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None known

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

If you feel unwell, seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Product is not flammable.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

In the event of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Material suitable for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved with water.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Advice on general occupational hygiene:

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place, away from heat.

Keep away from food, drink and feed.

Incompatible materials:

See chapter 10.5

Instructions as regards storage premises:

Adequately ventilated premises.

Protect from frost.

7.3. Specific end use(s)

Recommendation(s)

See chapter 1.2

Industrial sector specific solutions:

None in particular

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9 OEL Type MAK AUSTRIA Long Term: 0.05 mg/m3

OEL Type MAK GERMANY Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

Notes: Inhalable fraction

OEL Type SUVA SWITZERLAN Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

D Notes: Inhalable fraction

2-methylisothiazol-3(2H)-one

CAS: 2682-20-4 OEL Type MAK AUSTRIA Long Term: 0.05 mg/m3

OEL Type MAK GERMANY Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

Notes: Inhalable fraction

OEL Type SUVA SWITZERLAN Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

D Notes: Inhalable fraction

Predicted No Effect Concentration (PNEC) values

Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts

CAS: 119345-04-9 Exposure Route: Fresh Water; PNEC Limit: 0.31 mg/l

Exposure Route: Marine water; PNEC Limit: 0.03 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 3.24 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.324 mg/kg

Exposure Route: Soil; PNEC Limit: 0.63 mg/kg

Derived No Effect Level (DNEL) values

Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts

CAS: 119345-04-9 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 4.4 mg/m3; Consumer: 1.1 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 1.2 mg/kg; Consumer: 0.6 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 0.6 mg/kg

8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Eye protection:

Eye glasses with side protection (EN 166).

Protection for skin:

Use suitable clothing that provides complete protection to the skin according to activity and exposure (EN 14605/EN 13982), e.g. overall, apron, safety shoes, suitable clothing.

Protection for hands

There is no material or combination of materials for gloves that can guarantee unlimited resistance to any individual chemical or combination of chemicals.

For prolonged or repeated handling, use chemical resistant gloves.

Suitable materials for safety gloves (EN 374/EN 16523); Butyl caoutchouc (butyl rubber): thickness >= 0.4 mm; permeation time >= 480 min. NBR (Nitril rubber): thickness >= 0.4 mm; permeation time >= 480 min

The choice of suitable gloves does not only depend on the material, but also on other quality characteristics that vary from one manufacturer to another and on the manner and times according to which the mixture is used.

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Combination filtering device (EN 14387).

Environmental exposure controls:

See point 6.2

Hygienic and Technical measures

See section 7.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Appearance: Liquid Color: whitish

Odour: Characteristic Odour threshold: N.D.

Melting point/freezing point: N.D.

Boiling point or initial boiling point and boiling range: N.D.

Flammability: Non-flammable

Lower and upper explosion limit: N.D. Flash point: > 93°C (Internal assessment)

Auto-ignition temperature: N.D. Decomposition temperature: N.D. pH: >=7.00<=8.00 (Internal method) Kinematic viscosity: ≤ 20.5 mm²/s (40 °C)

Density and/or relative density: $1.00 \div 1.05 \text{ kg/l}$ (Internal method)

Relative vapour density: N.D. Vapour pressure: N.D.

Solubility in water: miscible in all ratio Solubility in oil: No data available

Partition coefficient n-octanol/water (log value): N.A.

Particle characteristics:

Particle size: N.A. **9.2. Other information**

Conductivity: N.D.

Explosive properties: N.A. (Internal assessment) Oxidizing properties: N.A. (Internal assessment)

Evaporation rate: N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Keep away from heat sources.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

See chapter 5.2

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on hazard classes as defined in the retained Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

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f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts

CAS: 119345-04-9 a) acute toxicity LD50 Skin Rabbit > 2000 mg/kg

LD50 Oral Rat > 2000 mg/kg

1,2-benzisothiazol-3(2H)-one

CAS: 2634-33-5 a) acute toxicity ATE - Oral: 450 mg/kg bw

ATE - Inhalation (Dust/mist): 0.21 mg/l

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9 a) acute toxicity ATE - Oral: 66 mg/kg bw

ATE - Dermal: 141 mg/kg bw

ATE - Inhalation (Dust/mist): 0.17 mg/l

2-methylisothiazol-3(2H)-one

CAS: 2682-20-4 a) acute toxicity ATE - Oral: 120 mg/kg bw

ATE - Dermal: 300 mg/kg bw

ATE - Inhalation (Dust/mist): 0.134 mg/l

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

Adopt good working practices, so that the product is not released into the environment.

12.1. Toxicity

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts

CAS: 119345-04-9 a) Aquatic acute toxicity: LC50 Fish 6.2 mg/l 96h

a) Aquatic acute toxicity: LC50 Daphnia 1.64 mg/l 48h b) Aquatic chronic toxicity: NOEC Fish 0.15 mg/l - 33d

b) Aquatic chronic toxicity: NOEC Daphnia 1 mg/l 21d

1,2-benzisothiazol-3(2H)-one

CAS: 2634-33-5 a) Aquatic acute toxicity: LC50 Fish 2.2 mg/l 96h

a) Aquatic acute toxicity: EC50 Daphnia 3.27 mg/l 48h
 a) Aquatic acute toxicity: EC50 Algae 0.11 mg/l 72h
 b) Aquatic chronic toxicity: NOEC Fish 0.21 mg/l - 28d

b) Aquatic chronic toxicity: NOEC Daphnia 1.2 mg/l - 21d b) Aquatic chronic toxicity: NOEC Algae 0.04 mg/l 72h

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9 a) Aquatic acute toxicity: LC50 Fish 0.22 mg/l 96h a) Aquatic acute toxicity: EC50 Daphnia 0.1 mg/l 48h

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a) Aquatic acute toxicity: EC50 Algae 0.0052 mg/l 48h

a) Aquatic acute toxicity: EC50 Freshwater algae 0.048 mg/l 72h

b) Aquatic chronic toxicity: NOEC Fish 0.098 mg/l - 28d

b) Aquatic chronic toxicity: NOEC Daphnia 0.004 mg/l $\,$ - $\,$ 21d

b) Aquatic chronic toxicity: NOEC Algae 0.00064 mg/l 48h

b) Aquatic chronic toxicity: NOEC Freshwater algae 0.0012 mg/l 72h

2-methylisothiazol-3(2H)-one

CAS: 2682-20-4 a) Aquatic acute

a) Aquatic acute toxicity: LC50 Fish 6 mg/l 96h

a) Aquatic acute toxicity: EC50 Daphnia 1.68 mg/l 48h

a) Aquatic acute toxicity: EC50 Algae 0.157 mg/l 72h

b) Aquatic chronic toxicity: NOEC Fish 2.1 mg/l - 28d

b) Aquatic chronic toxicity: NOEC Daphnia 0.55 mg/l - 21d

b) Aquatic chronic toxicity: NOEC Algae 0.03 mg/l 72h

12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one

CAS: 2634-33-5 Non-readily biodegradable

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9 Non-readily biodegradable

2-methylisothiazol-3(2H)-one

CAS: 2682-20-4 Readily biodegradable

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Do not allow it to enter drains or watercourses.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Once the product has expired, it must be disposed of in accordance with current legislation.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A IATA-Shipping Name: N/A IMDG-Shipping Name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A IATA-Class: N/A IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

14.5. Environmental hazards

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Marine pollutant: No Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code):

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Era: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A

IMDG-Segregation: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Directive 2010/75/EU

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 28 (CAS 50-00-0), 30 (CAS 13463-41-7), 72, 75

Provisions related to directive EU 2012/18 (Seveso III):

None

Regulation (EU) No 649/2012 (PIC regulation)

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No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

Code EUH071 On the basis of available data, the product does not contain any SVHC in percentage \geq 0.1%.

VOC content limit value (Directive 2004/42/EC) Cat. A/h: 30 g/l; COV < 1 g/l

Relevant EU provisions transposed through retained EU legislation:

UK REACH List of restrictions (Annex XVII);

UK REACH Candidate list of substances of very high concern (SVHC) for authorisation;

UK REACK List of substances subject to authorisation (Annex XIV);

Corrosive to the respiratory tract.

Export and import of hazardous chemicals - Prior informed consent (PIC regulation).

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Description

H301	Toxic if swallowed.			
H302	Harmful if swallowed.			
H310	Fatal in contact with skin.			
H311	Toxic in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H330	Fatal if inhaled.			
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
Code	Hazard class and hazard category	Description		
3.1/2/Dermal	Acute Tox. 2	Acute toxicity (dermal), Category 2		
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2		
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3		
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3		
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4		
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B		
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C		
3.2/2	Skin Irrit. 2	Skin irritation, Category 2		
3.3/1	Eye Dam. 1	Serious eye damage, Category 1		
3.3/2	Eye Irrit. 2	Eye irritation, Category 2		

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

3.4.2/1A

3.7/2

4.1/A1

4.1/C1 4.1/C2

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

Skin Sensitisation, Category 1A

Reproductive toxicity, Category 2

Acute aquatic hazard, category 1

Chronic (long term) aquatic hazard, category 1

Chronic (long term) aquatic hazard, category 2

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Safety data sheets of raw materials suppliers.

Skin Sens. 1A

Aquatic Acute 1

Aquatic Chronic 1

Aquatic Chronic 2

Repr. 2

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center CE: European Community

CLP: Classification, Labeling, Packaging. CMR: Carcinogenic, Mutagenic and Reprotoxic

COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report DNEL: Derived No Effect Level.

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association. IC50: half maximal inhibitory concentration

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

N.D.: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TLV-TWA: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

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

- SECTION 2: Hazards identification

- SECTION 3: Composition/information on ingredients

- SECTION 8: Exposure controls/personal protection

- SECTION 9: Physical and chemical properties

- SECTION 11: Toxicological information

- SECTION 12: Ecological information

- SECTION 14: Transport information

- SECTION 15: Regulatory information

- SECTION 16: Other information

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