according to Regulation (EC) No. 1907/2006



BPO-Paste Weiss

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

1.1 Product identifier

Trade name : BPO-Paste Weiss

Product code : 124.637

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

Use of the Sub-

stance/Mixture

: Curing chemical

Recommended restrictions

on use

Industrial use, professional use

1.3 Details of the supplier of the safety data sheet

Company : A.Förster & Co.KG

Esinger Steinweg 50 25436 Uetersen

Germany

info@foerster-co.de

Telephone : 04122-3682

Responsible Department : Laboratory

04122-3682

info@foerster-co.de

1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord,

Göttingen, Deutschland

0551 19240

according to Regulation (EC) No. 1907/2006



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Organic peroxides, Type E H242: Heating may cause a fire.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Cat-

egory 1

H410: Very toxic to aquatic life with long lasting

effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms









Signal Word Warning

Hazard Statements H242 Heating may cause a fire.

> H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or

repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

P101 If medical advice is needed, have product container or **Precautionary Statements**

label at hand.

P102 Keep out of reach of children.

Prevention:

Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/ strong acids, bases. heavy metal salts and other reducing substances /combustible

materials.

P234 Keep only in original packaging. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

according to Regulation (EC) No. 1907/2006



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tion/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P410 Protect from sunlight.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazardous ingredients which must be listed on the label:

dibenzoyl peroxide dibutyl maleate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture 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.

Toxicological information: The substance/mixture 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture contains

Organic Peroxide

Components

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
dibenzoyl peroxide	94-36-0	Org. Perox. B; H241	>= 49 - <= 51
	202-327-6	Eye Irrit. 2; H319	
	617-008-00-0	Skin Sens. 1: H317	

according to Regulation (EC) No. 1907/2006



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	01-2119511472-50	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ———— M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
dibutyl maleate	105-76-0 203-328-4 01-2119523581-45	Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Acute 1; H400 ——————————————————————————————————	>= 20 - <= 25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

Move out of dangerous area.

Take off contaminated clothing and shoes immediately. Show this material safety data sheet to the doctor in attend-

ance.

First aider needs to protect himself.

If inhaled : Move to fresh air.

Get medical attention.

In case of skin contact : Wash off immediately with soap and plenty of water.

Call a physician if irritation persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Keep eye wide open while rinsing.

Remove contact lenses. Consult a physician.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated

according to Regulation (EC) No. 1907/2006



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exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder Water spray jet

Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

Hazardous decomposition products formed under fire condi-

tions.

5.3 Advice for firefighters

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

Evacuate personnel to safe areas.

Ensure adequate ventilation, especially in confined areas.

Remove all sources of ignition.

Do not smoke.

Avoid contact with skin, eyes and clothing.

In the case of vapor formation use a respirator with an ap-

proved filter.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages

cannot be contained.

according to Regulation (EC) No. 1907/2006



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Advice on safe handling : Use only with adequate ventilation.

Provide sufficient air exchange and/or exhaust in work rooms.

Wear personal protective equipment.

Keep away from heat and sources of ignition.

Handle and open container with care. Keep container tightly closed and dry.

Never return unused material to storage receptacle.

Risk of decomposition.

Prevent contamination with readily oxidizable materials and

polymerization accelerators. Avoid inhalation of vapor or mist.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid release to the environment.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Avoid shock and friction. Take measures to prevent the build up of electrostatic charge. Use

explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Avoid letting the product become dry. Keep containers tightly closed in a cool, well-ventilated place. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Keep away from reducing agents. Incompatible with acids and bases.

Heavy metal compounds

7.3 Specific end use(s)

Specific use(s) : No data available

The rules which cover amongst other things the requirement

according to Regulation (EC) No. 1907/2006



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for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
dibenzoyl peroxide	94-36-0	OELV - 8 hrs (TWA)	5 mg/m3	IE OEL	
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
dibenzoyl peroxide	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	13.3 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	39 mg/m3
dibutyl maleate	Workers	Inhalation	Long-term systemic effects	5.87 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.42 mg/kg
	Consumers	Ingestion	Acute systemic ef- fects	0.5 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.25 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment Value		
dibenzoyl peroxide	Fresh water	0.00002 mg/l	
	Intermittent use/release	0.000602 mg/l	
	Sea water	0.000002 mg/l	
	Fresh water sediment	0.0127 mg/kg dry weight (d.w.)	
	Sea sediment	0.00127 mg/kg dry weight (d.w.)	
	Soil	0.0025 mg/kg dry weight (d.w.)	
	Sewage treatment plant	0.35 mg/l	
dibutyl maleate	Fresh water	0.0012 mg/l	
	Sea water	0.00012 mg/l	
	Intermittent use/release	0.012 mg/l	
	Sewage treatment plant	4.886 mg/l	

according to Regulation (EC) No. 1907/2006



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Fresh water sediment	0.06 mg/kg
Sea sediment	0.006 mg/kg
Soil	0.0155 mg/kg
Oral (Secondary Poisoning)	6.33 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : >= 0.14 mm
Directive : DIN EN 374
Protective index : Class 2

Remarks : Gloves should be discarded and replaced if there is any indi-

cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different

from one producer to the other.

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational

exposure limits.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Protective measures : When using do not eat, drink or smoke.

Ensure that eye flushing systems and safety showers are

located close to the working place. Avoid contact with the skin and the eyes. Use only with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : paste

Color : white

Odor : slight

Melting point/range : Decomposition

according to Regulation (EC) No. 1907/2006



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Boiling point/boiling range : Decomposition

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : Not applicable, Decomposition

Self-Accelerating decomposi-

tion temperature (SADT)

50 °C

pH : Not applicable substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : (20 °C)

insoluble

Partition coefficient: n-

octanol/water

No data available

Vapor pressure : Not applicable

Density : No data available

9.2 Other information

Oxidizing properties : Organic peroxide

Sustains combustion

Organic peroxides : Peroxide content: 50 %

The substance or mixture is an organic peroxide classified as

type E.

Available oxygen content : 3.31 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of decomposition.

according to Regulation (EC) No. 1907/2006



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Reacts violently in contact with acids, amines, driers, polymer-

ization accelerators and easily oxidized materials.

10.4 Conditions to avoid

Conditions to avoid : Do not expose to temperatures above: > 25 °C

Extremes of temperature and direct sunlight. Keep away from heat and sources of ignition.

Contact with incompatible substances can cause decomposi-

tion at or below SADT.

10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and

heavy metal salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and

decomposition

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

dibenzoyl peroxide:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 24.3 mg/l

Exposure time: 4 h

dibutyl maleate:

Acute oral toxicity : LD50 Oral (Rat): >= 3,730 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

according to Regulation (EC) No. 1907/2006



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Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

dibutyl maleate:

Routes of exposure : Skin contact Species : Guinea pig

Assessment : The product is a skin sensitizer, sub-category 1B.

Method : OECD Test Guideline 406

Result : positive

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

dibutyl maleate:

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

dibenzoyl peroxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0602 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.0316 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.11 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 0.076 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.0711

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.02

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC10: 0.001 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: 10

dibutyl maleate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.6 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 21 mg/l

End point: Immobilization Exposure time: 48 h

according to Regulation (EC) No. 1907/2006



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Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 6.2 mg/l

End point: Biomass Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 4.2 mg/l

End point: Biomass Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- :

icity)

ı

Toxicity to microorganisms : EC50 (Bacteria): 488.6 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

dibenzoyl peroxide:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 71 % Exposure time: 28 d

Method: OECD Test Guideline 301D

dibutyl maleate:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

dibenzoyl peroxide:

Partition coefficient: n-

octanol/water

: log Pow: 3.2 (20 °C)

dibutyl maleate:

Partition coefficient: n- : log Pow: 3.39 (25 °C)

octanol/water pH: 7

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

according to Regulation (EC) No. 1907/2006



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> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment The substance/mixture does not contain components consid-

> ered 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.

12.7 Other adverse effects

Product:

Additional ecological infor- : No data available

mation

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Do not mix waste streams during collection.

Do not dispose of with domestic refuse.

Do not empty into drains, dispose of this material and its con-

tainer at hazardous or special waste collection point. Dispose of in accordance with local regulations.

Contaminated packaging Packaging that is not properly emptied must be disposed of as

the unused product.

Dispose of in accordance with local regulations.

Waste Code The following Waste Codes are only suggestions:

> 16 05 06, laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chem-

16 09 03, peroxides, for example hydrogen peroxide

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 3108 **ADR** UN 3108 RID UN 3108 **IMDG UN 3108**

according to Regulation (EC) No. 1907/2006



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IATA : UN 3108

14.2 UN proper shipping name

ADN : ORGANIC PEROXIDE TYPE E, SOLID

(dibenzoyl peroxide)

ADR : ORGANIC PEROXIDE TYPE E, SOLID

(dibenzoyl peroxide)

RID : ORGANIC PEROXIDE TYPE E, SOLID

(dibenzoyl peroxide)

IMDG : ORGANIC PEROXIDE TYPE E, SOLID

(dibenzoyl peroxide)

IATA : Organic peroxide type E, solid

(dibenzoyl peroxide)

14.3 Transport hazard class(es)

ADN : 5.2
ADR : 5.2
RID : 5.2
IMDG : 5.2
IATA : 5.2

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : P1 Labels : 5.2

ADR

Packing group : Not assigned by regulation

Classification Code : P1 Labels : 5.2 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : P1 Hazard Identification Number : 539 Labels : 5.2

IMDG

Packing group : Not assigned by regulation

Labels : 5.2 EmS Code : F-J, S-R

IATA (Cargo)

Packing instruction (cargo : 570

aircraft)

Packing group : Not assigned by regulation

Labels : Organic Peroxides, Keep Away From Heat

according to Regulation (EC) No. 1907/2006



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IATA (Passenger)

Packing instruction (passen- : 570

ger aircraft)

Packing group : Not assigned by regulation

Labels : Organic Peroxides, Keep Away From Heat

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

dangerous substances.

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC

DEDUAIDES

PEROXIDES

according to Regulation (EC) No. 1907/2006



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E1 ENVIRONMENTAL HAZARDS

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

Full text of H-Statements

H241 : Heating may cause a fire or explosion. H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

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

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation
Org. Perox. : Organic peroxides
Skin Sens. : Skin sensitization

STOT RE : Specific target organ toxicity - repeated exposure

IE OEL : Ireland. List of Chemical Agents and Occupational Exposure

Limit Values - Schedule 1

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

according to Regulation (EC) No. 1907/2006



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H410

1.0 IE / EN 13.07.2022 Date of first issue: 13.07.2022

- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Aquatic Chronic 1

Classification of the mixture: Classification procedure: Org. Perox. E H242 Based on product data or assessment Eye Irrit. 2 H319 Calculation method Skin Sens. 1 H317 Calculation method STOT RE 2 H373 Calculation method Aquatic Acute 1 H400 Calculation method

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

IE / EN

according to Regulation (EC) No. 1907/2006



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2.0 DE / EN 15.06.2022 Date of first issue: 15.06.2022

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

1.1 Product identifier

Trade name : UP-SYSTEM FEW

Product code : 143.794

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

Use of the Sub-

stance/Mixture

Body filler/stopper

Recommended restrictions

on use

Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Vosschemie GmbH

Esinger Steinweg 50 25436 Uetersen

Germany

info@vosschemie.de

Telephone : 04122 717 0 Telefax : 04122 717158

Responsible Department : Laboratory

04122 717 0

sds@vosschemie.de

1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord,

Göttingen, Deutschland

0551 19240

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapor.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child.

Specific target organ toxicity - repeated

exposure, Category 1

H372: Causes damage to organs through pro-

longed or repeated exposure.

Long-term (chronic) aquatic hazard, Cat-

egory 4

H413: May cause long lasting harmful effects to

aquatic life.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or re-

peated exposure.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P260 Do not breathe dust / mist / vapours.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

according to Regulation (EC) No. 1907/2006



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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazardous ingredients which must be listed on the label:

styrene 2,2'-(m-tolylimino)diethanol maleic anhydride

Additional Labeling

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Ecological information: The substance/mixture 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.

Toxicological information: The substance/mixture 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

contains Resin

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
unsaturated polyester polymer	Not Assigned	Aquatic Chronic 4; H413	>= 20 - < 25

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		Acute toxicity estimate Acute oral toxicity: > 2.000 mg/kg Acute inhalation toxicity (dust/mist): > 5 mg/l Acute dermal toxicity:	
styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	> 2.000 mg/kg Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity estimate Acute inhalation tox-	>= 10 - < 20
		icity (vapor): 11,8 mg/l	
Titanium dioxide	13463-67-7 236-675-5 01-2119489379-17	Carc. 2; H351	>= 10 - < 20
2,2'-(m-tolylimino)diethanol	91-99-6 202-114-8 01-2120791683-42	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT RE 2; H373 Acute toxicity estimate Acute oral toxicity: 300,03 mg/kg	>= 0,1 - < 1
1-ethylpyrrolidin-2-one	2687-91-4 220-250-6 616-208-00-5 01-2119472138-36	Eye Dam. 1; H318 Repr. 1B; H360Df	>= 0,1 - < 0,3
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372	>= 0,001 - < 0,1

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(Respiratory system) EUH071

specific concentration limit Skin Sens. 1A; H317 >= 0,001 %

Acute toxicity esti-

Revision Date:

Substances with a workplace exposure limit :

Talc | 14807-96-6 | >= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

Move out of dangerous area.

Take off contaminated clothing and shoes immediately.

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mate

Acute oral toxicity: 1.090 mg/kg

Do not leave the victim unattended.

Symptoms of poisoning may appear several hours later. Show this material safety data sheet to the doctor in attend-

ance.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respira-

tion.

Call a physician immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. Call a physician if irritation develops or persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Keep eye wide open while rinsing.

If easy to do, remove contact lens, if worn.

according to Regulation (EC) No. 1907/2006



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Consult a physician.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

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

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder Water spray jet Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

Hazardous combustion prod: :

ucts

Hazardous decomposition products due to incomplete com-

bustion

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

5.3 Advice for firefighters

Special protective equipment:

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

Evacuate personnel to safe areas.

Ensure adequate ventilation, especially in confined areas.

Remove all sources of ignition.

Do not smoke.

Avoid contact with skin, eyes and clothing. Sweep up to prevent slipping hazard.

In the case of vapor formation use a respirator with an ap-

proved filter.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep container closed when not in use.

Provide sufficient air exchange and/or exhaust in work rooms.

Wear personal protective equipment. Avoid contact with skin and eyes.

Avoid the inhalation of dust, particulates, spray or mist arising

from the application of this mixture. Avoid inhalation of dust from sanding.

Advice on protection against

fire and explosion

 Vapors may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Do not

smoke. Take measures to prevent the build up of electrostatic

charge. Use explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container. Keep containers tightly closed in a

dry, cool and well-ventilated place.

Further information on stor- : Keep away from heat and sources of ignition. Protect from

according to Regulation (EC) No. 1907/2006



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age conditions moisture. Keep away from direct sunlight. Do not store at

temperatures above 30 °C / 86 °F.

Advice on common storage : Incompatible with oxidizing agents.

Keep away from food and drink.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis		
·		of exposure)	·			
Talc	14807-96-6	AGW (Inhalable	10 mg/m3	DE TRGS		
		fraction)		900		
	Peak-limit cat	Peak-limit category: 2;(II)				
	Further inform	nation: When there is	s compliance with the OEL a	and biological		
	tolerance valu	ues, there is no risk o	of harming the unborn child			
		AGW (Alveolate	1,25 mg/m3	DE TRGS		
		fraction)		900		
	Peak-limit cat					
			s compliance with the OEL a	and biological		
	tolerance valu		of harming the unborn child	T.		
		TWA (Respirable	0,1 mg/m3	2004/37/EC		
		dust)				
		nation: Carcinogens		T.		
styrene	100-42-5	AGW	20 ppm	DE TRGS		
			86 mg/m3	900		
	Peak-limit cat	egory: 2;(II)				
	Further inform	nation: When there is	s compliance with the OEL a	and biological		
			of harming the unborn child	•		
Titanium dioxide	13463-67-7	AGW (Inhalable	10 mg/m3	DE TRGS		
		fraction)	(Titanium dioxide)	900		
	Peak-limit cat					
			s compliance with the OEL a	and biological		
	tolerance valu		of harming the unborn child	T		
		AGW (Alveolate	1,25 mg/m3	DE TRGS		
		fraction)	(Titanium dioxide)	900		
	Peak-limit cat					
			s compliance with the OEL a	and biological		
			of harming the unborn child	T		
Barium sulphate	7727-43-7	AGW (Inhalable	10 mg/m3	DE TRGS		
	 	fraction)		900		
	Peak-limit category: 2;(II)					

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Further information: When there is compliance with the OEL and biological				
tolerance valu				
	,	1,25 mg/m3	DE TRGS	
	fraction)		900	
Peak-limit cat	egory: 2;(II)			
			nd biological	
2687-91-4	AGW (Vapour	5 ppm	DE TRGS	
	and aerosols)	23 mg/m3	900	
Peak-limit cat	egory: 2;(I)			
Further inform	ation: Skin absorption	on, When there is compliance	e with the OEL	
and biological	tolerance values, th	ere is no risk of harming the	unborn child	
108-31-6	AGW (Vapour	0,02 ppm	DE TRGS	
	and aerosols)	0,081 mg/m3	900	
Peak-limit cat	egory: 1; =2.5=(I)			
Further information: In well-found cases also a momentary value can be es-				
tablished, that never can be exceeded. This substance will be indicated by = =				
in combination with an exceeding value., When there is compliance with the				
OEL and biological tolerance values, there is no risk of harming the unborn				
	Peak-limit cate Further informand biological 108-31-6 Peak-limit cate Further informand biological 108-31-6 Peak-limit cate Further informand biological 108-31-6	tolerance values, there is no risk of AGW (Alveolate fraction) Peak-limit category: 2;(II) Further information: When there is tolerance values, there is no risk of 2687-91-4 AGW (Vapour and aerosols) Peak-limit category: 2;(I) Further information: Skin absorption and biological tolerance values, the service of AGW (Vapour and aerosols) Peak-limit category: 1; =2.5=(I) Further information: In well-found tablished, that never can be exceed in combination with an exceeding OEL and biological tolerance values.	tolerance values, there is no risk of harming the unborn child AGW (Alveolate fraction) Peak-limit category: 2;(II) Further information: When there is compliance with the OEL ar tolerance values, there is no risk of harming the unborn child 2687-91-4 AGW (Vapour 5 ppm 23 mg/m3 Peak-limit category: 2;(I) Further information: Skin absorption, When there is compliance and biological tolerance values, there is no risk of harming the 108-31-6 AGW (Vapour 0,02 ppm 0,081 mg/m3 Peak-limit category: 1; =2.5=(I) Further information: In well-found cases also a momentary value tablished, that never can be exceeded. This substance will be in combination with an exceeding value., When there is compliance will be in combination with an exceeding value., When there is compliance will be in combination with an exceeding value., When there is compliance will be in combination with an exceeding value., When there is compliance will be in combination with an exceeding value.	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long- term exposure: after more than one shift, Immedi- ately after expo- sure or after work- ing hours	TRGS 903

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic effects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic effects	85 mg/m3
	Workers	Inhalation	Acute systemic effects, Chronic effects	289 mg/m3
	Workers	Inhalation	Acute local effects, Short-term exposure	306 mg/m3
	Consumers	Oral	Long-term systemic effects, Chronic effects	2,1 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects, Chronic effects	343 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Chronic ef-	10,0 mg/m3

according to Regulation (EC) No. 1907/2006



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			fects	
	Consumers	Inhalation	Acute systemic ef- fects, Short-term exposure	174,25 mg/m3
	Consumers	Inhalation	Acute local effects, Short-term exposure	182,75 mg/m3
2,2'-(m- tolylimino)diethanol	Workers	Inhalation	Long-term systemic effects, Acute systemic effects	0,8 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,23 mg/kg
	Consumers	Inhalation	Long-term systemic effects, Acute systemic effects	0,24 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,07 mg/kg
	Consumers	Oral	Long-term systemic effects, Acute systemic effects	0,14 mg/kg
maleic anhydride	Workers	Inhalation	Long-term systemic effects	0,081 mg/m3
	Workers	Inhalation	Acute systemic effects	0,2 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
styrene	Fresh water	0,028 mg/l
	Sea water	0,014 mg/l
	Fresh water sediment	0,614 mg/kg dry weight (d.w.)
	Sea sediment	0,307 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
	Sewage treatment plant	5 mg/l
2,2'-(m-tolylimino)diethanol	Fresh water	0,107 mg/l
	Sea water	0,011 mg/l
	Sewage treatment plant	81,7 mg/l
	Fresh water sediment	2,16 mg/kg
	Sea sediment	0,22 mg/kg
	Soil	0,37 mg/kg
maleic anhydride	Fresh water	0,038 mg/l
	Sea water	0,0038 mg/l
	Fresh water sediment	0,296 mg/l
	Sea sediment	0,0296 mg/l
	Soil	0,037 mg/kg dry weight (d.w.)
	Sewage treatment plant	44,6 mg/l

8.2 Exposure controls

Personal protective equipment

according to Regulation (EC) No. 1907/2006



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Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Fluorinated rubber

Break through time : > 480 min
Glove thickness : >= 0,4 mm
Directive : DIN EN 374
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indi-

cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection Butyl gloves are not suitable. Nitrile gloves are not suitable.

Avoid natural rubber gloves.

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational

exposure limits.

If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment

should be used.

Dry sanding, flame cutting and/or welding of the cured materi-

al will give rise to dust and/or hazardous fumes.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Filter type : Combined particulates and organic vapor type (A-P)

Protective measures : Ensure that eye flushing systems and safety showers are

located close to the working place. Avoid contact with the skin and the eyes. Use only with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : paste

Color : white

Odor : characteristic

according to Regulation (EC) No. 1907/2006



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Melting point/range : -30 °C

Literary value styrene

Boiling point/boiling range : 145 °C (1.013 hPa)

Literary value styrene

Upper explosion limit / Upper

flammability limit

6,1 %(V)

Literary value styrene

Lower explosion limit / Lower

flammability limit

1,1 %(V)

Literary value styrene

Flash point : 31 °C(1.013 hPa)

Literary value styrene

Autoignition temperature : 490 °C (1.013 hPa)

Literary value styrene

pH : Not applicable substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : 0,32 g/l (25 °C)

Literary value styrene

Partition coefficient: n-

octanol/water

No data available

Vapor pressure : 6,67 hPa (20 °C)

Literary value styrene

Density : ca. 1,9 g/cm3 (20 °C)

9.2 Other information

Explosives : Not explosive

In use, may form flammable/explosive vapor-air mixture.

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

according to Regulation (EC) No. 1907/2006



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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Avoid radical-forming starting agents, peroxides and reactive

metals.

Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause ther-

mal decomposition and/or rupture containers.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

polymerization initiators

Copper Copper alloys

Brass

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Components:

unsaturated polyester polymer:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

styrene:

Acute oral toxicity : LD50 Oral (Rat): 5.000 mg/kg

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Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute toxicity estimate: 11,8 mg/l

Test atmosphere: vapor Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Titanium dioxide:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 6,8 mg/l

Exposure time: 4 h

2,2'-(m-tolylimino)diethanol:

Acute oral toxicity : LD50 (Rat): > 300 - < 2.000 mg/kg

Method: OECD Test Guideline 423

Acute toxicity estimate: 300,03 mg/kg

Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

1-ethylpyrrolidin-2-one:

Acute oral toxicity : LD50 Oral (Rat): ca. 3.200 mg/kg

maleic anhydride:

Acute oral toxicity : LD50 Oral (Rat): 1.090 mg/kg

Method: OECD Test Guideline 401

Acute toxicity estimate: 1.090 mg/kg

Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 4,35 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): 2.620 mg/kg

Talc:

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

according to Regulation (EC) No. 1907/2006



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Skin corrosion/irritation

Causes skin irritation.

Components:

styrene:

Species : Rabbit Result : irritating

Titanium dioxide:

Remarks : No skin irritation

2,2'-(m-tolylimino)diethanol:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

styrene:

Species : Rabbit Result : irritating

Titanium dioxide:

Remarks : Dust contact with the eyes can lead to mechanical irritation.

2,2'-(m-tolylimino)diethanol:

Result : Irreversible effects on the eye

1-ethylpyrrolidin-2-one:

Assessment : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

styrene:

Species : Guinea pig

Result : Does not cause skin sensitization.

according to Regulation (EC) No. 1907/2006



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Titanium dioxide:

Remarks : No known sensitising effect.

2,2'-(m-tolylimino)diethanol:

Result : The product is a skin sensitizer, sub-category 1B.

maleic anhydride:

Result : The product is a skin sensitizer, sub-category 1A.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

styrene:

Reproductive toxicity - As-

sessment

Suspected of damaging the unborn child., Some evidence of adverse effects on development, based on animal experi-

ments.

1-ethylpyrrolidin-2-one:

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on

sexual function and fertility, based on animal experiments.

STOT-single exposure

Not classified based on available information.

Components:

styrene:

Assessment : May cause respiratory irritation.

1-ethylpyrrolidin-2-one:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT-repeated exposure

Causes damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Components:

styrene:

Routes of exposure : Inhalation

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Target Organs : hearing organs

Assessment : Causes damage to organs through prolonged or repeated

exposure.

2,2'-(m-tolylimino)diethanol:

Assessment : May cause damage to organs through prolonged or repeated

exposure.

1-ethylpyrrolidin-2-one:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

maleic anhydride:

Routes of exposure : Inhalation

Target Organs : Respiratory system

Assessment : Causes damage to organs through prolonged or repeated

exposure.

Aspiration toxicity

Not classified based on available information.

Components:

styrene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

unsaturated polyester polymer:

Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

according to Regulation (EC) No. 1907/2006



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styrene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 4,7 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l

Exposure time: 72 h

EC10 (Selenastrum capricornutum (green algae)): 0,28 mg/l

Exposure time: 96 h

Toxicity to microorganisms : EC50 (Natural microorganism): ca. 500 mg/l

Method: OECD Test Guideline 209

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1,01 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Titanium dioxide:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.000 mg/l

Exposure time: 48 h

2,2'-(m-tolylimino)diethanol:

Toxicity to fish : EC50 (Danio rerio (zebra fish)): > 68,6 mg/l

Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 107 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 2.170 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

maleic anhydride:

according to Regulation (EC) No. 1907/2006



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Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l

Exposure time: 96 h Method: EPA-660/3-75-00

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 42,81 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 74,35

mg/i

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

styrene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 70,9 % Exposure time: 28 d

2,2'-(m-tolylimino)diethanol:

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301D

maleic anhydride:

Biodegradability : Biodegradation: > 90 %

Exposure time: 225 d

Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

styrene:

Partition coefficient: n-

octanol/water

log Pow: 2,96 (25 °C)

2,2'-(m-tolylimino)diethanol:

Partition coefficient: n- : log Pow: 0,934

according to Regulation (EC) No. 1907/2006



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octanol/water

1-ethylpyrrolidin-2-one:

Partition coefficient: n-

octanol/water

: log Pow: -0,2 (20 °C)

maleic anhydride:

Partition coefficient: n-

octanol/water

log Pow: -2,61 (20 °C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains components considered to

be either persistent, bioaccumulative and toxic (PBT), or very

persistent and very bioaccumulative (vPvB).

Components:

1-ethylpyrrolidin-2-one:

Assessment : This substance is considered to be persistent, bioaccumulat-

ing and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.

Do not empty into drains, dispose of this material and its con-

tainer at hazardous or special waste collection point.

according to Regulation (EC) No. 1907/2006



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Dispose of in accordance with local regulations.

Dispose of wastes in an approved waste disposal facility.

Send to a licensed waste management company.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Store containers and offer for recycling of material when in

accordance with the local regulations.

Packaging that is not properly emptied must be disposed of as

the unused product.

Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:

07 02 08, other still bottoms and reaction residues

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1866
ADR : UN 1866
RID : UN 1866
IMDG : UN 1866
IATA : UN 1866

14.2 UN proper shipping name

ADN : RESIN SOLUTION
ADR : RESIN SOLUTION
RID : RESIN SOLUTION
IMDG : RESIN SOLUTION
IATA : Resin solution

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

according to Regulation (EC) No. 1907/2006



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ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen- : 355

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

dangerous substances.

P5c

FLAMMABLE LIQUIDS

Water hazard class (Germa-

: WGK 2 obviously hazardous to water

ny)

Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC

Volatile organic compounds (VOC) content: < 250 g/l VOC content for the product in a ready to use condition.

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

according to Regulation (EC) No. 1907/2006



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SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapor.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways. 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 eve irritation.

H332 : Harmful if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation.

H351 : Suspected of causing cancer if inhaled.

H360Df : May damage the unborn child. Suspected of damaging fertili-

ty.

H361d : Suspected of damaging the unborn child.

H372 : Causes damage to organs through prolonged or repeated

exposure if inhaled.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H412 : Harmful to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.

EUH071 : Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard
Carc. : Carcinogenicity
Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Repr. : Reproductive toxicity
Resp. Sens. : Respiratory sensitization

Skin Corr.: Skin corrosionSkin Irrit.: Skin irritationSkin Sens.: Skin sensitization

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

TRGS 903 : c - Biological limit values 2004/37/EC / TWA : Long term exposure limit DE TRGS 900 / AGW : Time Weighted Average

according to Regulation (EC) No. 1907/2006



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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 4	H413	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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