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# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.06.2024 Version number 6 (replaces version 5) Revision: 24.06.2024

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

· 1.1 Product identifier

· Trade name: MS 76 Rodding bond

· Article number: 10929, 11078

· <u>UFI:</u> YT73-D033-W00A-EEKV

1.2 Relevant identified uses of the substance or mixture and

**uses advised against**No further relevant information available.

· Application of the substance / the

<u>mixture</u> Reaction resin

· 1.3 Details of the supplier of the safety data sheet

• <u>Manufacturer/Supplier:</u> AKEMI chemisch technische Spezialfabrik GmbH Lechstrasse 28 Tel. +49(0)911-642960 Fax. +49(0)911-644456

Lechstrasse 28 D 90451 Nürnberg

· Further information obtainable

<u>from:</u> Laboratory

1.4 Emergency telephone

<u>number:</u> Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

#### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.

#### 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.







GHS02 GHS07 GHS08

· <u>Signal word</u> Danger

· Hazard-determining components of

labelling: styrene

maleic anhydride

cobalt(II) 2-ethylhexanoate

· <u>Hazard statements</u> H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated

exposure.

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December 1	D404	(Contd. of page
Precautionary statements	P101	If medical advice is needed, have product container or label hand.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.
	P210	Keep away from heat, hot surfaces, sparks, open flames at other ignition sources. No smoking.
	P260	Do not breathe vapours.
	P280	Wear protective gloves / eye protection.
	P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all contaminat clothing. Rinse skin with water [or shower].
	P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minute Remove contact lenses, if present and easy to do. Contin rinsing.
	P314	Get medical advice/attention if you feel unwell.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention
	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with loc regional/national/international regulations.

 $\begin{array}{ccc} \cdot & \underline{\mathsf{PBT:}} & & \mathsf{Not \ applicable.} \\ \cdot & \mathsf{vPvB:} & & \mathsf{Not \ applicable.} \end{array}$ 

· Determination of endocrine-

disrupting properties For information on endocrine disrupting properties see section 11.

### **SECTION 3: Composition/information on ingredients**

### · 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

<u>= = = =p=</u>		
· Dangerous components:		
CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226 Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	12.5-25%
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17	1,1'-(p-tolylimino)dipropan-2-ol Acute Tox. 2, H300 Eye Irrit. 2, H319	<1%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	<1%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29-xxxx	cobalt(II) 2-ethylhexanoate Repr. 1A, H360Df Eye Irrit. 2, H319; Skin Sens. 1A, H317 Aquatic Chronic 3, H412	<1%
	(Cor	ntd. on page 3)

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CAS: 130-15-4	1,4-naphthoquinone	<1%
EINECS: 204-977-6 Reg.nr.: 01-2120760462-57	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 1, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 108-31-6 EINECS: 203-571-6	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372	<1%
Index number: 607-096-00-9	Skin Corr. 1B, H314; Eye Dam. 1, H318	
Reg.nr.: 01-2119472428-31	Acute Tox. 4, H302; Skin Sens. 1A, H317	
	EUH071	
	Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

#### **SECTION 4: First aid measures**

4.1 Description of first aid measures

· General information: Take affected persons out into the fresh air.

Position and transport stably in side position.

Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. · After inhalation:

Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for

transportation.

· After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist,

consult a doctor.

· After swallowing: If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and

delayed

Nausea Headache Dizziness

Dizziness

· Hazards Danger of impaired breathing. · 4.3 Indication of any immediate

medical attention and special

treatment needed If swallowed, gastric irrigation with added, activated carbon.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

CO2, powder or water spray. Fight larger fires with water spray or alcohol Suitable extinguishing agents:

resistant foam.

· For safety reasons unsuitable

extinguishing agents:

Water with full jet

5.2 Special hazards arising from

the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO) Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded,

Hydrogen cyanide (HCN)

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• 5.3 Advice for firefighters
• Protective equipment: Wear self-contained respiratory protective device.

Mount respiratory protective device.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and

<u>emergency procedures</u> Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

• <u>6.2 Environmental precautions:</u> Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

**containment and cleaning up:** Dispose of the material collected according to regulations.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

• **6.4 Reference to other sections** See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe

handling Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than

aır).

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

explosion protection: Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles:

Store only in the original receptacle.

Prevent any seepage into the ground.

3

· Information about storage in one

common storage facility: Store aw

Store away from foodstuffs. Store away from oxidising agents.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

· Storage class:

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de name:	MS 76 Rodding bond		
			(Contd. of page
7.3 Specif	ic end use(s) No	further relevant information available.	
SECTION	8: Exposure controls/perso	onal protection	
8.1 Contro	ol parameters		
Ingredients	s with limit values that require	monitoring at the workplace:	
	ethyl acetate		
	ort-term value: 1468 mg/m³, 4 ng-term value: 734 mg/m³, 20		
DNELs			
100-42-5 s	styrene		
Oral	DNEL (Langzeit-wiederholt)	2.1 mg/kg bw/day (BEV)	
Dermal	DNEL (Langzeit-wiederholt)	406 mg/kg bw/day (ARB)	
	,	343 mg/kg bw/day (BEV)	
Inhalative	DNEL (Kurzzeit-akut)	289-306 mg/m³ Air (ARB)	
	22 (	174.25-182.75 mg/m³ Air (BEV)	
	DNEL (Langzeit-wiederholt)	85 mg/m³ Air (ARB)	
	DIVEE (EarlyZeit Wiederneit)	10.2 mg/m³ Air (BEV)	
20660 40	3 1,1'-(p-tolylimino)dipropa	l · · · · · · · · · · · · · · · · · · ·	
	DNEL (Langzeit-wiederholt)	0.25 mg/kg bw/day (BEV)	
	, ,		
Dermal	DNEL ( Langzeit-wiederholt)		
1	DNEL (Language Standard and all)	0.3 mg/kg bw/day (BEV)	
innaiative	DNEL (Langzeit-wiederholt)	2.47 mg/m³ Air (ARB)	
444 = 0.0		0.4 mg/m³ Air (BEV)	
	ethyl acetate	[4.5] (I) (DE)()	
	DNEL (Langzeit-wiederholt)	4.5 mg/kg bw/day (BEV)	
Dermal	DNEL ( Langzeit-wiederholt)	, ,	
		37 mg/kg bw/day (BEV)	
Inhalative	DNEL (Kurzzeit-akut)	1,468 mg/m³ Air (ARB)	
		734 mg/m³ Air (BEV)	
	DNEL (Langzeit-wiederholt)	734 mg/m³ Air (ARB)	
		367 mg/m³ Air (BEV)	
136-52-7 c	cobalt(II) 2-ethylhexanoate		
Oral	DNEL (Langzeit-wiederholt)	0.0558 mg/kg bw/day (BEV)	
Inhalative	DNEL (Langzeit-wiederholt)	0.235 mg/m³ Air (ARB)	
		0.037 mg/m³ Air (BEV)	
130-15-4 1	l,4-naphthoquinone		
Inhalative	DNEL (Langzeit-wiederholt)	0.033 mg/m³ Air (ARB)	
	naleic anhydride	. , ,	
	DNEL (Langzeit-wiederholt)	0.06 mg/kg bw/day (BEV)	
	DNEL (Kurzzeit-akut)	0.04 mg/kg bw/day (ARB)	
	DNEL (Langzeit-wiederholt)	0.2 mg/kg bw/day (ARB)	
	2. TEL ( Eding Zoit Wiodofffolt)	0.1 mg/kg bw/day (BEV)	
Inhalativo	DNEL (Kurzzeit-akut)	0.2 mg/m³ Air (ARB)	
	` '	0.2 mg/m Air (ARB) 0.081 mg/m³ Air (ARB)	
	DNEL (Langzeit-wiederholt)	0.08 mg/m³ Air (ARB) 0.08 mg/m³ Air (BEV)	



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de name: MS 76	Rodding bond	
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PNECs		
100-42-5 styren		
PNEC (wässrig)	5 mg/l (KA)	
	0.014 mg/l (MW)	
	0.028 mg/l (SW)	
	0.04 mg/l (WAS)	
PNEC (fest)	0.2 mg/kg Trockengew (BO)	
	0.307 mg/kg Trockengew (MWS)	
	0.614 mg/kg Trockengew (SWS)	
38668-48-3 1,1'-	(p-tolylimino)dipropan-2-ol	
PNEC (wässrig)	3 mg/l (KA)	
	0.013 mg/l (MW)	
	0.13 mg/l (SW)	
	0.17 mg/l (WAS)	
PNEC (fest)	0.798 mg/kg Trockengew (BO)	
,	0.438 mg/kg Trockengew (MWS)	
	4.38 mg/kg Trockengew (SWS)	
141-78-6 ethyl a		
PNEC (wässrig)		
ν σ,	0.024 mg/l (MW)	
	0.24 mg/l (SW)	
	1.65 mg/l (WAS)	
PNEC (fest)	0.148 mg/kg Trockengew (BO)	
,	0.115 mg/kg Trockengew (MWS)	
	1.15 mg/kg Trockengew (SWS)	
136-52-7 cobalt	(II) 2-ethylhexanoate	
PNEC (wässrig)	• •	
ν σ,	0.00236 mg/l (MW)	
	0.00051 mg/l (SW)	
PNEC (fest)	10.9 mg/kg Trockengew (BO)	
` '	9.5 mg/kg Trockengew (MWS)	
	9.5-11.2 mg/kg Trockengew (SWS)	
130-15-4 1,4-na		
	0.172 mg/l (KA)	
	0.00261 mg/l (MW)	
	0.0261 mg/l (SW)	
PNEC (fest)	0.049 mg/kg Trockengew (BO)	
,	0.0321 mg/kg Trockengew (MWS)	
	0.321 mg/kg Trockengew (SWS)	
108-31-6 maleic		
PNEC (wässrig)		
` 97	0.0038 mg/l (MW)	
	0.038 mg/l (SW)	
	0.4281 mg/l (WAS)	
PNEC (fest)	0.037 mg/kg Trockengew (BO)	
(.551)		(Contd. on pag



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0.0296 mg/kg Trockengew (MWS) 0.296 mg/kg Trockengew (SWS)

· Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

Hand protection

 Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic

measures: Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

· Respiratory protection: Short term filter device:

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

ARRETIL (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves:

STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

Kresto Classic (http://debstoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).



### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior

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to the application.

· Penetration time of glove material Value for the permeation: Level ≤ 1.30 min

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are

suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR Butoject (KCL, Art\_No. 897, 898)

· Not suitable are gloves made of the following materials:

Natural rubber, NR Chloroprene rubber, CR Leather gloves

Eye/face protection

Strong material gloves

Tightly sealed goggles

Protective work clothing · Body protection:

#### **SECTION 9: Physical and chemical properties**

#### · 9.1 Information on basic physical and chemical properties

· General Information

· Colour: According to product specification · Odour: Specific type

· Melting point/freezing point:

Undetermined. · Boiling point or initial boiling point and boiling range 145 °C

· Lower and upper explosion limit

· Lower: 1.2 Vol % · Upper: 8.9 Vol % 31 °C · Flash point: · Auto-ignition temperature: 480 °C

· pH Not determined.

Not applicable

Viscosity:

· Kinematic viscosity Not determined. · Dynamic at 20 °C: 1,000 mPas

Solubility

Not miscible or difficult to mix. · water:

· Vapour pressure at 20 °C: 6 hPa

· Density and/or relative density

 Density at 20 °C: 1.74 g/cm<sup>3</sup>

#### · 9.2 Other information

· Appearance:

Fluid · Form:

· Important information on protection of health and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible.

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· Solvent content:	
· Organic solvents:	18.7 %
· Solids content:	81.6 %
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
<ul> <li>Substances and mixtures, which emit flammable gases in</li> </ul>	<u>n</u>
contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· <u>Organic peroxides</u>	Void

Void

Void

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

· Corrosive to metals

Desensitised explosives

conditions to be avoided:

· 10.4 Conditions to avoid

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous

reactions

products:

Exothermic polymerisation.

Reacts with peroxides and other radical forming substances.

Reacts with strong alkali.

Reacts with strong acids. Reacts with strong oxidising agents.

No further relevant information available.

Danger of forming toxic pyrolysis products.

10.6 Hazardous decomposition

· 10.5 Incompatible materials: No further relevant information available.

#### **SECTION 11: Toxicological information**

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

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 v	· LD/LC50 values relevant for classification:		
ATE (Acu	ATE (Acute Toxicity Estimates)		
Oral	LD50	>17,112-<136,893 mg/kg (rat)	
Inhalative	LC50/4 h	63.9 mg/l (rat)	
100-42-5	100-42-5 styrene		

100-42-5 \$	100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)	
Inhalative	LC50/4h	9.5 mg/m3 (mouse)	
		(Contd. on none 10)	

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		11,800 mg/m3 (rat)
	LC50/4 h	11.8 mg/l (rat)
	NOAEC	4.34 mg/l (rat)
38668-48-		nino)dipropan-2-ol
Oral	LD50	>25-<200 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
	ethyl acetate	
Oral	LD50	4,100 mg/kg (mouse)
		5,620 mg/kg (rat)
		4,934 mg/kg (rabbit) (OECD 401)
	NOAEL-Werte	900 mg/kg (rat)
Dermal	LD50	>18,000 mg/kg (rabbit) (OECD 402)
Inhalative		58 mg/l (rat)
	LC50/4 h	56 mg/l (rat)
	LC50/1h	200 mg/l (rat)
	LC50/8h	5.86 mg/l (rat)
	LC50/48h	333 mg/l (Leuciscus idus)
130-15-4	1,4-naphthoqui	- 1
Oral	LD50	124 mg/kg (rat)
	NOAEL-Werte	
Dermal	LD50	300 mg/kg (ATE)
	LD50	202 mg/kg (rat)
Inhalative		46 mg/m3 (rat)
minaidavo	LC50/4 h	0.005 mg/l (ATE)
108-31-6	maleic anhydri	- ,
Oral	LD50	1,090-2,620 mg/kg (rabbit) (OECD 401)
		400-480 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)
Inhalative		>4.35 mg/l (rat)
	LC50/48h	138 mg/l (lem)
Skin corro	sion/irritation	Causes skin irritation.
Serious ey	e damage/irrita	tion Causes serious eye irritation.
	ry or skin sensiti	sation May cause an allergic skin reaction.
Germ cell Carcinoge	mutagenicity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
	tive toxicity	Suspected of damaging the unborn child.
	gle exposure	Based on available data, the classification criteria are not met.
	eated exposure	
Aspiration	<u>hazard</u> mation on othe	Based on available data, the classification criteria are not met.
	mation on othe	ti iiazaius
	disrupting prop	ortios



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## **SECTION 12: Ecological information**

### · 12.1 Toxicity

· Aquatic toxicity:					
	100-42-5 styrene				
EC50/96h	6.3 mg/l (Pseudokirchneriella subcapitata)				
EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)				
	5.5 mg/l (Photobac. phosphoreum)				
IC50/72h	4.9 mg/l (algae)				
1000,12	1.4 mg/l (selenastrum capricornutum)				
IC5/8d	>200 mg/l (Scenedesmus quadricauda)				
EC10/16h	72 mg/l (pseudomonas putida)				
EC50/16h	>72 mg/l (pseudomonas putida)				
EC50/8d	>200 mg/l (Scenedesmus quadricauda)				
EC50/72u	>1-<10 mg/l (algae)				
EC20/0.5h	140 mg/l (BES) (OECD 209)				
NOEC/21d	1.01 mg/l (daphnia magna)				
EC10	0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)				
EC50/48h	0.56 mg/l (algae)				
	3.3-7.4 mg/l (daphnia magna)				
EC50/72h	0.46-4.3 mg/l (Pseudokirchneriella subcapitata)				
LC50/96h	>1-<10 mg/l (piscis)				
	19.03-33.53 mg/l (lem)				
	3.24-4.99 mg/l (pimephales promelas)				
	6.75-14.5 mg/l (Pimephales promelas)				
	58.75-95.32 mg/l (poecilia reticulata)				
LC50/72h	4.9 mg/l (algae)				
38668-48-3 °	38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol				
EC50/48h	28.8 mg/l (daphnia magna) (OECD 202)				
EC20/0.5h	>1,995 mg/l (BES) (OECD 209)				
NOEC/21d	1.3 mg/l (piscis)				
EC50/72h	245 mg/l (Desmodesmus subspicatus) (OECD 201)				
LC50/96h	17 mg/l (Brachydanio rerio)				
141-78-6 eth	· ·				
EC50/24h	2,300-3,090 mg/l (daphnia magna)				
EC50/96h	220 mg/l (Pimephales promelas)				
EC10/18h	2,900 mg/l (pseudomonas putida)				
EC50/48h	610 mg/l (daphnia magna) (DIN 38412)				
	5,600 mg/l (Scenedesmus subspicatus)				
IC50/48h	3,300 mg/l (Scenedesmus subspicatus)				
LC 0	29.3 mg/l (rat)				
NOELR/72h	- , , , , , , , , , , , , , , , , , , ,				
NOEC/21d	2.4 mg/l (daphnia magna) (DIN 38412 Part 11)				
EC10	2,900 mg/l (pseudomonas putida)				
EC50/48h	3,300 mg/l (Scenedesmus subspicatus)				
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EC50/72h	1,800-3,200 mg/l (selenastrum capricornutum)		
LC50/96h	300-600 mg/l (Oncorhynchus mykiss)		
	230 mg/l (Pimephales promelas)		
	balt(II) 2-ethylhexanoate		
IC50/72h	528 mg/l (algae)		
	-naphthoquinone		
NOEC	0.011 mg/kg (algae)		
EC50/48h	0.026 mg/l (daphnia magna)		
EC50/72h	0.011 mg/l (algae)		
	0.42 mg/l (Pseudokirchneriella subcapitata)		
LC50/96h	0.045 mg/l (Oryzias latipes)		
108-31-6 ma	naleic anhydride		
EC50/24h			
EC50	77 mg/l (daphnia magna)		
EC10/18h	44.6 mg/l (pseudomonas putida)		
EC50/48h	42.81 mg/l (daphnia magna) (OECD 202)		
ErC50/72h	74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 201)		
NOELR/72h	150 mg/l (Pseudokirchneriella subcapitata)		
NOEC/21d	10 mg/l (daphnia magna)		
EC50/72h	29 mg/l (Desmodesmus subspicatus)		
	74.32 mg/l (Pseudokirchneriella subcapitata)		
	>150 mg/l (Selenastrum capricornutum)		
LC50/96h	75 mg/l (lepomis macrochirus)		
	75 mg/l (Oncorhynchus mykiss)		
12.2 Persist			

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

# · 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

12.6 Endocrine disrupting

**properties**The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Additional ecological information:

· General notes: Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for

water

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· European waste catalogue		
	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 01 00	separately collected fractions (except 15 01)	

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20 01 27\* paint, inks, adhesives and resins containing hazardous substances

Uncleaned packaging:

Empty contaminated packagings thoroughly. They may be recycled after · Recommendation:

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

#### **SECTION 14: Transport information**

· 14.1 UN number or ID number

UN3269 · ADR, IMDG, IATA

14.2 UN proper shipping name

· ADR 3269 POLYESTER RESIN KIT · IMDG, IATA POLYESTER RESIN KIT

14.3 Transport hazard class(es)

· ADR



· Class 3 (F3) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

· Label

· 14.4 Packing group

Ш · ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant:

 14.6 Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code):

· EMS Number: F-E,S-D

Stowage Category

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

 Transport category Ε

· Tunnel restriction code

·IMDG

· Limited quantities (LQ) 5L

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**Trade name:** MS 76 Rodding bond

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· Excepted quantities (EQ) Code: See SP340

· UN "Model Regulation": UN 3269 POLYESTER RESIN KIT, 3, III

#### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed. Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 5,000 t

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 50,000 t

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

108-88-3 toluene

3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

108-88-3 toluene

3

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be

observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 326.0 g/l

15.2 Chemical safety

**assessment:** A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Laboratory

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# Safety data sheet

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**Trade name: MS 76 Rodding bond** 

· Date of previous version:

· Version number of previous

Abbreviations and acronyms:

22.12.2022

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European

Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (R

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A Repr. 1A: Reproductive toxicity – Category 1A Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard — Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

EU