

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part A

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

1.1. Product identifier

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

Use of the substance/mixture

Colour

Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

	Company name: Street:	Chesterton International GmbH Am Lenzenfleck 23	
	Place:	DE-85737 Ismaning GERMANY	
	Telephone: e-mail: e-mail (Contact person): Internet:	+49 89 99 65 46 - 0 eu-sds@chesterton.com eu-sds@chesterton.com www.chesterton.com	Telefax: +49 89 99 65 46 - 50
	Responsible Department:	eu-sds@chesterton.com	
<u>1</u>	4. Emergency telephone	+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 3 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1A Hazard Statements: Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-((1-methylethylidene)bis(4,1-phenyleneoxymethylene))bis(oxirane) Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and fatty acids, C18 unsaturated, dimers with (9Z)-octadec-9-en-1-amine



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Signal word:	Warning	
Pictograms:		
Hazard statements		
H226	Flammable liquid and vapour.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
Precautionary statemer	Its	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P241	Use explosion-proof electrical/ventilating/lighting equipment.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.	
2.3. Other hazards		

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	ł	•	
1675-54-3	2,2'-[(1-Methylethylide	n)bis(4,1-phenylenoxymethylen)]bisox	iran	20 - < 25 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2,	, Skin Sens. 1; H315 H319 H317		
25036-25-3		ethylidene)bis-, polymer with 2,2'- is(4,1-phenyleneoxymethylene))bis(ox	irane)	20 - < 25 %
	Skin Irrit. 2, Eye Irrit. 2,	, Skin Sens. 1; H315 H319 H317		
1330-20-7	xylene			7 - < 10 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox	. 4, Acute Tox. 4, Skin Irrit. 2; H226 H	332 H312 H315	
78-83-1	2-methylpropan-1-ol; is	1 - < 2,5 %		
	201-148-0	603-108-00-1	01-2119484609-23	
	Flam. Liq. 3, Skin Irrit.	2, Eye Dam. 1, STOT SE 3, STOT SE	3; H226 H315 H318 H335 H336	
107-98-2	1-methoxy-2-propanol;	1 - < 2,5 %		
	203-603-9	603-064-00-3		
	Flam. Liq. 3, Acute Tox	. 3, STOT SE 3; H226 H331 H336	L.	
64742-95-6	Solvent naphtha (petro	1 - < 2,5 %		
	265-199-0	649-356-00-4	01-2119486773-24	
	Flam. Liq. 3, Acute Tox H226 H332 H315 H33			
	Reaction products of fa C18 unsaturated, dime	0,15 - 0,25 %		
	942-330-6		01-2120101675-63	
	Acute Tox. 4, Skin Irrit.	2, Skin Sens. 1A, STOT RE 2; H302	H315 H317 H373	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. If unconscious place in recovery position and seek medical advice.



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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately. Do not wash with: Solvents/Thinner

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Do NOT induce vomiting.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8. Provide adequate ventilation. Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.



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6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Hints on joint storage

Keep away from: Food and feedingstuffs Oxidising agent

Further information on storage conditions

Keep away from: Frost Heat Humidity

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
78-83-1	2-Methylpropan-1-ol	50	154		TWA (8 h)	WEL
		75	231		STEL (15 min)	WEL
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL



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Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol		Post shift



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DNEL/DMEL values

CAS No Substance			
DNEL type	Exposure n	oute Effect	Value
1675-54-3 2,2'-[(1-Methylethylider	bis(4,1-phenylenoxymethylen)]bisoxiran		
Worker DNEL, long-term	inhalation	local	310 mg/m ³
Consumer DNEL, long-term	inhalation	local	55 mg/m³
Worker DNEL, long-term	inhalation	systemic	4,93 mg/m³
Worker DNEL, long-term	dermal	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,0893 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day
1330-20-7 xylene			
Worker DNEL, long-term	inhalation	local	221 mg/m ³
Consumer DNEL, long-term	inhalation	local	65,3 mg/m³
Worker DNEL, long-term	inhalation	systemic	221 mg/m ³
Worker DNEL, acute	inhalation	systemic	442 mg/m ³
Worker DNEL, acute	inhalation	local	442 mg/m ³
Worker DNEL, long-term	dermal	systemic	212 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	65,3 mg/m³
Consumer DNEL, acute	inhalation	systemic	260 mg/m ³
Consumer DNEL, acute	inhalation	local	260 mg/m ³
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	12,5 mg/kg bw/day
,			
7429-90-5 aluminium powder (stat	ilised)		
Worker DNEL, long-term	inhalation	systemic	3,72 mg/m ³
Worker DNEL, long-term	inhalation	local	3,72 mg/m ³
Consumer DNEL, long-term	oral	systemic	7,9 mg/kg bw/day
·			
78-83-1 2-methylpropan-1-ol; is	butanol		
Worker DNEL, long-term	inhalation	local	310 mg/m ³
Consumer DNEL, long-term	inhalation	local	55 mg/m³
107-98-2 1-methoxy-2-propanol;	nonopropylene glycol methyl ether		
Worker DNEL, long-term	inhalation	systemic	369 mg/m ³

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Consumer DNEL, long-term	inhalation	systemic	43,9 mg/m³
Worker DNEL, acute	inhalation	local	553,5 mg/m³
Worker DNEL, acute	inhalation	systemic	553,5 mg/m³
Worker DNEL, long-term	dermal	systemic	183 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	78 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	33 mg/kg bw/day
3			
64742-95-6 Solvent naphtha (petroleum), light arom.; Low bo	biling point naphtha - unspec	cified	
Worker DNEL, acute	inhalation	systemic	1286,4 mg/m ³
Worker DNEL, long-term	inhalation	local	837,5 mg/m³
Worker DNEL, acute	inhalation	local	1066,67 mg/m ³
Consumer DNEL, acute	inhalation	systemic	1152 mg/m ³
Consumer DNEL, long-term	inhalation	local	178,57 mg/m ³
Consumer DNEL, acute	inhalation	local	640 mg/m³
Reaction products of fatty acids, tall oil and fatty unsaturated, dimers with (9Z)-octadec-9-en-1-an		ners and fatty acids, C1	18
Worker DNEL, long-term	inhalation	systemic	0,75 mg/m³
Worker DNEL, long-term	dermal	systemic	0,43 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,37 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,21 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,11 mg/kg bw/day



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PNEC values CAS No Substance Environmental compartment Value 1675-54-3 2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran 0,006 mg/l Freshwater Freshwater (intermittent releases) 0,018 mg/l Marine water 0,001 mg/l Freshwater sediment 0,341 mg/kg Marine sediment 0,034 mg/kg Secondary poisoning 11 mg/kg Micro-organisms in sewage treatment plants (STP) 10 mg/l Soil 0,065 mg/kg 1330-20-7 xylene Freshwater 0,327 mg/l Freshwater (intermittent releases) 0,327 mg/l 0,327 mg/l Marine water Freshwater sediment 12,46 mg/kg Marine sediment 12,46 mg/kg Micro-organisms in sewage treatment plants (STP) 6,58 mg/l Soil 2,31 mg/kg 7429-90-5 aluminium powder (stabilised) Freshwater 0,0749 mg/l Micro-organisms in sewage treatment plants (STP) 20 mg/l 78-83-1 2-methylpropan-1-ol; iso-butanol Freshwater 0,4 mg/l Freshwater (intermittent releases) 11 mg/l Marine water 0,04 mg/l Freshwater sediment 1,56 mg/kg Marine sediment 0,156 mg/kg Micro-organisms in sewage treatment plants (STP) 10 mg/l Soil 0,076 mg/kg 107-98-2 1-methoxy-2-propanol; monopropylene glycol methyl ether Freshwater 10 mg/l 100 mg/l Freshwater (intermittent releases) Marine water 1 mg/l Freshwater sediment 52,3 mg/kg

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Marine se	diment	5,2 mg/kg				
Micro-orga	Micro-organisms in sewage treatment plants (STP)					
Soil						
	Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and f unsaturated, dimers with (9Z)-octadec-9-en-1-amine	fatty acids, C18				
Freshwate	er	0,194 mg/l				
Freshwate	Freshwater (intermittent releases)					
Marine wa	ater	0,019 mg/l				
Freshwate	er sediment	29,6 mg/kg				
Marine se	diment	2,96 mg/kg				
Secondary poisoning		0,416 mg/kg				
Micro-orga	Micro-organisms in sewage treatment plants (STP)					
Soil		120 mg/kg				

8.2. Exposure controls

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Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff.

Eye/face protection

goggles

Hand protection

Tested protective gloves must be worn: EN ISO 374

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Wearing time with permanent contact: Thickness of the glove material: >= 0,4 mm, Breakthrough time (maximum wearing time): >480 min

Wearing time with occasional contact (splashes):: Thickness of the glove material: >= 0,1 mm, Breakthrough time (maximum wearing time) > 30 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Protective clothing

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Combination filtering device (EN 14387) ABEK-P2 Self-contained respirator (breathing apparatus) (DIN EN 133)



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SECTION 9: Physical and chemical properties

9.1. Information on basic physica	al and chemical properties	
Physical state:	Liquid	
Colour:	various	
Odour:	characteristic	
pH-Value:		No data available
Changes in the physical state		
Melting point:		No data available
Initial boiling point and boiling r	ange:	137 - 143 °C
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
Flash point:		30 °C
Flammability		
Solid:		No data available
Gas:		No data available
Explosive properties not explosive according to I Vapours can form explosive		
Lower explosion limits:		1,1
Upper explosion limits:		7
Ignition temperature:		500 °C
Auto-ignition temperature Solid: Gas:		No data available No data available
Decomposition temperature:		No data available
Oxidizing properties Not oxidising.		
Vapour pressure: (at 20 °C)		No data available
Density (at 20 °C):		1,54 g/cm ³
Water solubility:		Immiscible
Solubility in other solvents No information available.		
Partition coefficient:		No data available
Viscosity / dynamic:		No data available

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Viscosity / kinematic: (at 20 °C)	100 mm²/s					
Vapour density:	No data available					
Evaporation rate:	No data available					
Solvent content:	15,5					
9.2. Other information						
Solid content:	83,1					
No information available.						

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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



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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
1675-54-3	2,2'-[(1-Methylethyliden)	bis(4,1-pher	nylenoxymeth	ylen)]bisoxiran				
	oral	LD50 mg/kg	19800	Rabbit	Publication (1958)	Rabbits were orally gavaged with test ma		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2007)	OECD Guideline 402		
	inhalation (4 h) vapour	LC50 mg/l	ca. 24,6	Rat	AMA Arch. Ind. Hyg. Occ. Med. 10: 61-68	Rats were exposed to 8000 ppm of the tes		
1330-20-7	xylene			_				
	oral	LD50 mg/kg	3523	Rat	Study report (1986)	EU Method B.1		
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo		
	inhalation (4 h) vapour	LC50	6700 mg/l	Rat	Toxicol Appl Pharmacol 33:543-558. (1975	EU Method B.2		
	inhalation aerosol	ATE	1,5 mg/l					
78-83-1	2-methylpropan-1-ol; iso-butanol							
	oral	LD50 mg/kg	3350	Rat	Study report (1993)	EPA OTS 798.1175		
	dermal	LD50 mg/kg	2460	Rabbit	Study report (1993)	EPA OTS 798.1100		
	inhalation (4 h) vapour	LC50 mg/l	ca. 24,6	Rat	AMA Arch. Ind. Hyg. Occ. Med. 10: 61-68	Rats were exposed to 8000 ppm of the tes		
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether							
	oral	LD50 mg/kg	4277	Rat	Study report (1985)	EU Method B.1		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1985)	EU Method B.3		
	inhalation (4 h) vapour	LC50	>20 mg/l	Rat				
	inhalation aerosol	ATE	0,5 mg/l					
64742-95-6	Solvent naphtha (petrole	um), light ar	om.; Low boil	ing point naphtha	- unspecified			
	oral	LD50 mg/kg	> 5000	Rat	Study report (1986)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1986)	OECD Guideline 402		
	inhalation (4 h) vapour	LC50 mg/l	> 4,96	Rat	Study report (1992)	OECD Guideline 403		
	inhalation aerosol	ATE	1,5 mg/l					



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	LD50 mg/kg	> 300	Rat	Study report	OECD Guideline 423
	 LD50 mg/kg	> 5000	Rat	Study report	OECD Guideline 402

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-

((1-methylethylidene)bis(4,1-phenyleneoxymethylene))bis(oxirane); Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and fatty acids, C18 unsaturated, dimers with (9Z)-octadec-9-en-1-amine)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
1675-54-3	2,2'-[(1-Methylethyliden)b	is(4,1-phen	ylenoxymeth	ylen)]biso	oxiran		
	Acute fish toxicity	LC50	3,6 mg/l	96 h	Oncorhynchus mykiss	Study report (1982)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2007)	OECD Guideline 201
	Acute crustacea toxicity	EC50	2,8 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211
1330-20-7	xylene						
	Acute fish toxicity	LC50	8,4 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Fish toxicity	NOEC mg/l	> 1,3	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC mg/l	1,17	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Acute bacteria toxicity	(> 175 n	ng/l)	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (OECD Guideline 209
78-83-1	2-methylpropan-1-ol; iso-l	butanol		-			
	Acute fish toxicity	LC50 mg/l	1430	96 h	Pimephales promelas	Environ Toxicol Chem 14: 1591-1605 (1995	Method according to Brooke LT et al.
	Acute algae toxicity	ErC50 mg/l	1799	72 h	Pseudokirchneriella subcapitata	Study report (2007)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1100	48 h	Daphnia pulex	Environmental Toxicology and Chemistry 5	Method: ASTM Methods
	Crustacea toxicity	NOEC	20 mg/l	21 d	Daphnia magna	Water Res. 23(4): 501-510 (1989)	Method: The test was conducted in line w



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	Acute fish toxicity	LC50 < 10000 mg	> 4600 - g/l	96 h	Leuciscus idus	Study report (1989)	other: DIN 38 412, part L15
	Acute algae toxicity	ErC50 mg/l	> 1000	96 h	Pseudokirchneriella subcapitata	Study report (1986)	OECD Guideline 201
	Acute crustacea toxicity	EC50 25900 mg/l	21100 -	48 h	Daphnia magna	Study report (1981)	other: Environmental Sciences Research T
64742-95-6	Solvent naphtha (petroleu	ım), light aror	n.; Low boili	ng point	naphtha - unspecified		
	Acute algae toxicity	ErC50	3,1 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EC50	4,5 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
	Fish toxicity	NOEC	2,6 mg/l	21 d	Daphnia magna	Study report (1999)	other: OECD Guideline 211
	Crustacea toxicity	NOEC	2,6 mg/l	21 d	Daphnia magna	Study report (1999)	OECD Guideline 211
	Reaction products of fatty dimers with (9Z)-octadec-			cids, C18	3 unsaturated, trimers ar	nd fatty acids, C18 uns	aturated,
	Acute fish toxicity	LC50 mg/l	0,1 - 1	96 h	Danio rerio	http://www.echa.e uropa.eu/docume nts/1016	Literature
	Acute algae toxicity	ErC50 mg/l	26,8	72 h	Desmodesmus subspicatus	Study report (2013)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,013 mg/l	0,01 -	48 h	Daphnia magna	http://www.echa.e uropa.eu/docume nts/1016	Literature
	Crustacea toxicity	NOEC mg/l	> 10	21 d	Daphnia magna	Study report (2013)	OECD Guideline 211
	Acute bacteria toxicity	(> 1000 m	ıg/l)	3 h	activated sludge of a predominantly domestic sewag	Study report (2013)	OECD Guideline 209

12.2. Persistence and degradability

No information available.

CAS No	Chemical name				
	Method		Value	d	Source
	Evaluation				
1675-54-3	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymeth	ylen)]bisoxiran			
	OECD 302B		12%	28	
	Not readily biodegradable (according to OECD	critoria)			

12.3. Bioaccumulative potential



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran	>= 2,64
1330-20-7	xylene	3,2
78-83-1	2-methylpropan-1-ol; iso-butanol	10
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	< 1
	Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and fatty acids, C18 unsaturated, dimers with (9Z)-octadec-9-en-1-amine	13,18

BCF

CAS No	Chemical name	BCF	Species	Source
1675-54-3	2,2'- [(1-Methylethyliden)bis(4,1-phenylenoxy methylen)]bisoxiran	31		Study report (2010)
1330-20-7	xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
	Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and fatty acids, C18 unsaturated, dimers with (9Z)-octadec-9-en-1-amine	0,871		Catalogic calculatio

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

UN 1263
Paint
3
III
3



according to Regulation (EC) No 1907/2006

	Proguard M-S	ST2 Part A	
Revision date: 03.04.2020			Page 18 of 21
Classification code:	F1		
Special Provisions:	163 367 650		
Limited quantity:	5 L		
Excepted quantity: Transport category:	E1 3		
Hazard No:	30		
Tunnel restriction code:	D/E		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	UN 1263		
14.2. UN proper shipping name:	Paint		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	III		
Hazard label:	3		
Classification code:	F1		
Special Provisions:	163 367 650		
Limited quantity:	5 L		
Excepted quantity:	E1		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 1263		
14.2. UN proper shipping name:	Paint		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	III		
Hazard label:	3		
Marine pollutant:	Ρ		
Special Provisions:	163, 223, 367, 955		
Limited quantity: Excepted quantity:	5 L E1		
EmS:	F-E, S-E		
Air transport (ICAO-TI/IATA-DGR)	, U, U L		
<u>14.1. UN number:</u>	UN 1263		
14.2. UN proper shipping name:	Paint		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	Ш		
Hazard label:	3		
Special Provisions:	A3 A72 A192		
Limited quantity Passenger:	10 L		
Passenger LQ:	Y344		
Excepted quantity:	E1		
IATA-packing instructions - Passenger:		355	
IATA-max. quantity - Passenger:		60 L	
IATA-packing instructions - Cargo:		366	
IATA-max. quantity - Cargo:		220 L	

GB - EN



according to Regulation (EC) No 1907/2006

	Proguard M-ST2 Part A	
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14.5. Environmental bezarda		
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	20	
Danger releasing substance:	no epoxy resin	
14.6. Special precautions for user		
No information available.		
14.7. Transport in bulk according to Annex I No information available.	I of Marpol and the IBC Code	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 3: 2-methylpropan-1-ol; iso-butar		
2010/75/EU (VOC):	15,5	
2004/42/EC (VOC):	15,5	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juven work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.	
Water hazard class (D):	2 - obviously hazardous to water	
15.2. Chemical safety assessment		
2,2'-[(1-Methylethyliden)bis(4,1-phenyl Phenol, 4,4'-(1-methylethylidene)bis-, p ((1-methylethylidene)bis(4,1-phenylene xylene aluminium powder (stabilised) 2-methylpropan-1-ol; iso-butanol 1-methoxy-2-propanol; monopropylene Solvent naphtha (petroleum), light aror	oolymer with 2,2'- coxymethylene))bis(oxirane) glycol methyl ether n.; Low boiling point naphtha - unspecified and fatty acids, C18 unsaturated, trimers and fatty acids, C18	
SECTION 16: Other information		
(European Agreement concerning the I	: des marchandises dangereuses par Route nternational Carriage of Dangerous Goods by Road) le transport des marchandises dengereuses par chamin de far	

RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)



according to Regulation (EC) No 1907/2006

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	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
	ICAO: International Civil Aviation Organization
	ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
	CLP: Classification, labelling and Packaging
	REACH: Registration, Evaluation and Authorization of Chemicals
	GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
	UN: United Nations
	CAS: Chemical Abstracts Service
	DNEL: Derived No Effect Level
	DMEL: Derived Minimal Effect Level
	PNEC: Predicted No Effect Concentration
	ATE: Acute toxicity estimate
	LC50: Lethal concentration, 50%
	LD50: Lethal dose, 50%
	LL50: Lethal loading, 50%
	EL50: Effect loading, 50%
	EC50: Effective Concentration 50%
	ErC50: Effective Concentration 50%, growth rate
	NOEC: No Observed Effect Concentration
	BCF: Bio-concentration factor
	PBT: persistent, bioaccumulative, toxic
	vPvB: very persistent, very bioaccumulative
	MARPOL: International Convention for the Prevention of Marine Pollution from Ships
	IBC: Intermediate Bulk Container
	SVHC: Substance of Very High Concern

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1A; H317	Calculation method

Relevant H and EUH statements (number and full text)

	Son statements (number and run text)
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.



according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part A

May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.
Repeated exposure may cause skin dryness or cracking.

present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)