

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 1 of 20

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

1.1. Product identifier

Proguard M-ST2 Part B

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:	Chesterton International GmbH	
Street:	Am Lenzenfleck 23	
Place:	DE-85737 Ismaning GERMANY	
Telephone:	+49 89 99 65 46 - 0	Telefax: +49 89 99 65 46 - 50
e-mail:	eu-sds@chesterton.com	
e-mail (Contact person):	eu-sds@chesterton.com	
Internet:	www.chesterton.com	
Responsible Department:	eu-sds@chesterton.com	

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Phenol, methylstyrenated

ethylenediamine; 1,2-diaminoethane

2,4,6-tris(dimethylaminomethyl)phenol

Signal word: Warning

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 2 of 20

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 3 of 20

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
68512-30-1	Phenol, methylstyrenated			10 - < 15 %
	270-966-8		01-2119555274-38	
	Skin Sens. 1, Aquatic Chronic 3; H317 H412			
1330-20-7	xylene			3 - 5 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
78-83-1	2-methylpropan-1-ol; iso-butanol			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; monopropylene glycol methyl ether			1 - < 2,5 %
	203-603-9	603-064-00-3		
	Flam. Liq. 3, Acute Tox. 3, STOT SE 3; H226 H331 H336			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			1 - < 2,5 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified			1 - < 2,5 %
	918-668-5	649-356-00-4	01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066			
107-15-3	ethylenediamine; 1,2-diaminoethane			0,25 - 0,5 %
	203-468-6	612-006-00-6	01-2119480383-37	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1; H226 H312 H302 H314 H334 H317			

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 4 of 20

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.

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 (NO_x)

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 5 of 20

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/m ³	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
7727-43-7	Barium sulphate, 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 6 of 20

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	urine	Post shift

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 7 of 20

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7727-43-7	Barium sulfate			
Worker DNEL, long-term		inhalation	systemic	10 mg/m ³
Worker DNEL, long-term		inhalation	local	10
Consumer DNEL, long-term		inhalation	systemic	10 mg/m ³
Consumer DNEL, long-term		oral	systemic	13000 mg/kg bw/day
68512-30-1	Phenol, methylstyrenated			
Worker DNEL, long-term		inhalation	systemic	57 mg/m ³
Worker DNEL, long-term		dermal	systemic	16,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	28 mg/m ³
Consumer DNEL, long-term		dermal	systemic	8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4 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/m ³
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/m ³
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
78-83-1	2-methylpropan-1-ol; iso-butanol			
Worker DNEL, long-term		inhalation	local	310 mg/m ³
Consumer DNEL, long-term		inhalation	local	55 mg/m ³
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
Worker DNEL, long-term		inhalation	systemic	369 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	43,9 mg/m ³

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 8 of 20

Worker DNEL, acute	inhalation	local	553,5 mg/m ³
Worker DNEL, acute	inhalation	systemic	553,5 mg/m ³
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
64742-95-6 Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified			
Worker DNEL, acute	inhalation	systemic	1286,4 mg/m ³
Worker DNEL, long-term	inhalation	local	837,5 mg/m ³
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/m ³
Worker DNEL, long-term	inhalation	systemic	150 mg/m ³
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³
Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
107-15-3 ethylenediamine; 1,2-diaminoethane			
Worker DNEL, long-term	inhalation	systemic	25 mg/m ³
Worker DNEL, long-term	dermal	systemic	3,6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	12,5 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,275 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 9 of 20

PNEC values

CAS No	Substance		Value
7727-43-7	Barium sulfate	Environmental compartment	
		Freshwater	0,115 mg/l
		Freshwater sediment	600,4 mg/kg
		Micro-organisms in sewage treatment plants (STP)	62,2 mg/l
		Soil	207,7 mg/kg
68512-30-1	Phenol, methylstyrenated	Freshwater	0,014 mg/l
		Freshwater (intermittent releases)	0,14 mg/l
		Marine water	0,0014 mg/l
		Freshwater sediment	52,9 mg/kg
		Marine sediment	5,3 mg/kg
		Micro-organisms in sewage treatment plants (STP)	2,4 mg/l
		Soil	10,5 mg/kg
1330-20-7	xylene	Freshwater	0,327 mg/l
		Freshwater (intermittent releases)	0,327 mg/l
		Marine water	0,327 mg/l
		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
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
		Freshwater (intermittent releases)	100 mg/l
		Marine water	1 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 10 of 20

Freshwater sediment	52,3 mg/kg
Marine sediment	5,2 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	4,59 mg/kg
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol
Freshwater	0,084 mg/l
Freshwater (intermittent releases)	0,84 mg/l
Marine water	0,008 mg/l
Micro-organisms in sewage treatment plants (STP)	0,2 mg/l
107-15-3	ethylenediamine; 1,2-diaminoethane
Freshwater	0,016 mg/l
Freshwater (intermittent releases)	0,167 mg/l
Marine water	0,002 mg/l
Freshwater sediment	7,68 mg/kg
Marine sediment	0,768 mg/kg
Secondary poisoning	4,9 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,5 mg/l
Soil	4,36 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust 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: $\geq 0,4$ mm, Breakthrough time (maximum wearing time): >480 min

Wearing time with occasional contact (splashes):: Thickness of the glove material: $\geq 0,1$ 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 11 of 20

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)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical 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 range:		2,230 °C
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
Flash point:		not applicable

Flammability

Solid:		not applicable
Gas:		not applicable

Explosive properties

not explosive according to EU A.14

Lower explosion limits:		No data available
Upper explosion limits:		No data available
Ignition temperature:		500 °C

Auto-ignition temperature

Solid:		No data available
Gas:		No data available
Decomposition temperature:		No data available

Oxidizing properties

Not oxidising.

Vapour pressure: (at 1732 °C)		13,5 hPa
Density (at 20 °C):		1,6 g/cm ³

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 12 of 20

Water solubility: Immiscible

Solubility in other solvents

No information available.

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent content: 8,4

9.2. Other information

Solid content: 92,1

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 13 of 20

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68512-30-1	Phenol, methylstyrenated				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2007)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 402
1330-20-7	xylene				
	oral	LD50 3523 mg/kg	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 12126 mg/kg	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 3350 mg/kg	Rat	Study report (1993)	EPA OTS 798.1175
	dermal	LD50 2460 mg/kg	Rabbit	Study report (1993)	EPA OTS 798.1100
	inhalation (4 h) vapour	LC50 ca. 24.6 mg/l	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 4277 mg/kg	Rat	Study report (1985)	EU Method B.1
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1985)	EU Method B.3
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		
	inhalation aerosol	ATE 0,5 mg/l			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	LD50 2169 mg/kg	Rat	Study report (1992)	OECD Guideline 401
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1986)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1986)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 > 4,96 mg/l	Rat	Study report (1992)	OECD Guideline 403
107-15-3	ethylenediamine; 1,2-diaminoethane				

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 14 of 20

	oral	LD50 mg/kg	866	Rat	Study report (1979)	OECD Guideline 401
	dermal	LD50 mg/kg	560	Rabbit	Study report (1948)	Concentrated and 10% water solution was

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Phenol, methylstyrenated; ethylenediamine; 1,2-diaminoethane)

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 15 of 20

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
68512-30-1	Phenol, methylstyrenated					
	Acute algae toxicity	ErC50 15 mg/l	72 h	Desmodesmus subspicatus	Study report (2009)	OECD Guideline 201
	Acute crustacea toxicity	EC50 17 mg/l	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
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 mg/l)	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (OECD Guideline 209
78-83-1	2-methylpropan-1-ol; iso-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
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50 > 4600 - < 10000 mg/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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 16 of 20

	Acute crustacea toxicity	EC50 25900 mg/l	21100 -	48 h	Daphnia magna	Study report (1981)	other: Environmental Sciences Research T
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol						
	Acute fish toxicity	LC50	175 mg/l	96 h	Cyprinus carpio	Study report (1973)	other: Fish Bioassay Procedure in 1970 e
	Acute algae toxicity	ErC50	84 mg/l	72 h	Desmodesmus subspicatus	Study report (2004)	OECD Guideline 201
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling 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
107-15-3	ethylenediamine; 1,2-diaminoethane						
	Acute fish toxicity	LC50	640 mg/l	96 h	Poecilia reticulata	Study report (1989)	EU Method C. 1
	Acute algae toxicity	ErC50	71 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1990)	EU Method C.3
	Acute crustacea toxicity	EC50 mg/l	16,7	48 h	Daphnia magna	Study report (1989)	EU Method C.2
	Fish toxicity	NOEC mg/l	> 10	28 d	Gasterosteus aculeatus	Study report (1992)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	0,16	21 d	Daphnia magna	Wat. Res. Vol 23, No. 4, 501-510, 1989 (1)	other: Provisional Procedure: Extended t
	Acute bacteria toxicity	(1600 mg/l)		0,5 h	activated sludge of a predominantly domestic sewage	Study report (1989)	other: EC protocol as published O.J. 30

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 17 of 20

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68512-30-1	Phenol, methylstyrenated	3,627
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
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>= 0,219
107-15-3	ethylenediamine; 1,2-diaminoethane	-1,62

BCF

CAS No	Chemical name	BCF	Species	Source
68512-30-1	Phenol, methylstyrenated	165	Cyprinus carpio	http://www.safe.nite
1330-20-7	xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E

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

Land transport (ADR/RID)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 18 of 20

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
ethylenediamine; 1,2-diaminoethane

Restrictions on use (REACH, annex XVII):

Entry 3: 2,4,6-tris(dimethylaminomethyl)phenol

2010/75/EU (VOC): 8,3

2004/42/EC (VOC): 8,3

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions 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

For the following substances of this mixture a chemical safety assessment has been carried out:

Barium sulfate

Phenol, methylstyrenated

xylene

2-methylpropan-1-ol; iso-butanol

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 19 of 20

1-methoxy-2-propanol; monopropylene glycol methyl ether
2,4,6-tris(dimethylaminomethyl)phenol
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
ethylenediamine; 1,2-diaminoethane

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international conernat le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
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
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Proguard M-ST2 Part B

Revision date: 03.04.2020

Page 20 of 20

Relevant H and EUH statements (number and full 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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our 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.)