

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Proguard CN 200 Part B

Revision date: 05.11.2019

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

##### 1.1. Product identifier

Proguard CN 200 Part B

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

###### Use of the substance/mixture

Coatings and paints, fillers, putties, thinners

###### Uses advised against

No information 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 Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

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

Amines, polyethylenepoly-, triethylenetetramine fraction

m-phenylenebis(methylamine)

2,4,6-tris(dimethylaminomethyl)phenol

**Signal word:** Danger

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#### Pictograms:



#### Hazard statements

- H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	25 - < 50 %
	292-588-2	01-2119487919-13
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412	
1477-55-0	m-phenylenebis(methylamine)	10 - < 25 %
	216-032-5	01-2119480150-50
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H302 H314 H317 H412 EUH071	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	1 - < 5 %
	202-013-9	01-2119560597-27
	Skin Corr. 1, Skin Sens. 1; H314 H317	

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

#### Further Information

No information available.

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#### 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**

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

###### **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 (CO<sub>2</sub>). 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 (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>)

##### 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.

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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.

#### **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**

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#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction			
Worker DNEL, long-term		inhalation	systemic	0,54 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	5380 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,57 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,028 mg/cm <sup>2</sup>
Consumer DNEL, long-term		inhalation	systemic	0,096 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	1600 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,25 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	8 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,43 mg/cm <sup>2</sup>
Consumer DNEL, acute		dermal	local	1 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	0,14 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day
1477-55-0	m-phenylenebis(methylamine)			
Worker DNEL, long-term		dermal	systemic	0,33 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	0,2 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	1,2 mg/m <sup>3</sup>

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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	
	Freshwater	0,027 mg/l
	Freshwater (intermittent releases)	0,2 mg/l
	Marine water	0,003 mg/l
	Freshwater sediment	8,572 mg/kg
	Marine sediment	0,857 mg/kg
	Secondary poisoning	0,18 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0,13 mg/l
	Soil	1,25 mg/kg
1477-55-0	m-phenylenebis(methylamine)	
	Freshwater	0,094 mg/l
	Freshwater (intermittent releases)	0,152 mg/l
	Marine water	0,009 mg/l
	Freshwater sediment	12,4 mg/kg
	Marine sediment	1,24 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	2,44 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

#### 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.

##### Eye/face protection

Suitable eye protection:  
Eye glasses with side protection  
goggles

##### Hand protection

Suitable gloves type:

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NBR (Nitrile rubber) EN ISO 374,  
Butyl caoutchouc (butyl rubber) EN ISO 374  
Wear cotton undermitten if possible.

#### 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) A-P3

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:	ref. to label	
Odour:	characteristic	
pH-Value:		No data available

#### Changes in the physical state

Melting point:	No data available
Initial boiling point and boiling range:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Flash point:	~85 °C

#### Flammability

Solid:	No data available
Gas:	No data available

#### Explosive properties

No information available.

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	No data available

#### Auto-ignition temperature

Solid:	No data available
Gas:	No data available

Decomposition temperature:	No data available
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#### Oxidizing properties

No information available.

Vapour pressure:	No data available
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Density (at 23 °C):	~1,0 g/cm <sup>3</sup>
Water solubility:	No data available
<b>Solubility in other solvents</b>	
No information available.	
Partition coefficient:	No data available
Viscosity / dynamic: (at 23 °C)	~700 mPa·s
Vapour density:	No data available
Evaporation rate:	No data available

#### **9.2. Other information**

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**

Exothermic reaction with: Acid, Oxidising agent

#### **10.4. Conditions to avoid**

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

#### **10.5. Incompatible materials**

Acid, Oxidising agent

#### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses. No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### **11.1. Information on toxicological effects**

##### **ATEmix calculated**

ATE (oral) 1918,5 mg/kg

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#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction				
	oral	LD50 1861,9 mg/kg	Rat	Study report (1992)	other: EPA FR Vol.50, No. 188, September
	dermal	LD50 1465,4 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
1477-55-0	m-phenylenebis(methylamine)				
	oral	LD50 930 mg/kg	Rat	Study report (1973)	OECD Guideline 401
	dermal	LD50 > 3100 mg/kg	Rat	Study report (1975)	TK 11813 was applied to a shaved area of
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1,34 mg/l	Rat		
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	LD50 2169 mg/kg	Rat	Study report (1992)	OECD Guideline 401

## SECTION 12: Ecological information

### 12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction					
	Acute fish toxicity	LC50 330 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	other: U.S EPA-TSCA, 40 CFR Part 797.14
	Acute algae toxicity	ErC50 20 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 31,1	48 h	Daphnia magna	REACH Registration Dossier	EU Method C.2
	Acute bacteria toxicity	(800 mg/l)	0,5 h	activated sludge, domestic	REACH Registration Dossier	other: EEC L133 1988 p 118-122
1477-55-0	m-phenylenebis(methylamine)					
	Acute fish toxicity	LC50 mg/l > 100	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 12 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 15,2	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC mg/l 10,5	3 d	Selenastrum capricornutum		
	Crustacea toxicity	NOEC 4,7 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	(> 1000 mg/l)	0,5 h	Activated sludge from laboratory wastewater plant	Study report (2004)	OECD Guideline 209
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

### 12.2. Persistence and degradability

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1477-55-0	m-phenylenebis(methylamine)			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	49 %	28	
	Not readily biodegradable (according to OECD criteria)			

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	-2,9
1477-55-0	m-phenylenebis(methylamine)	ca. 0,18
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>= 0,219

#### BCF

CAS No	Chemical name	BCF	Species	Source
1477-55-0	m-phenylenebis(methylamine)	3,16	no data	Validated suite of c

### 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

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number:</b>	UN 2735
<b>14.2. UN proper shipping name:</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8
Classification code:	C7
Special Provisions:	274

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Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8  
 Classification code: C7  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-A, S-B  
 Segregation group: alkalis

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8  
 Special Provisions: A3 A803  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y840  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 851  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 855

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IATA-max. quantity - Cargo: 30 L

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

#### **14.6. Special precautions for user**

No information available.

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

No information available.

### SECTION 15: Regulatory information

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

##### **EU regulatory information**

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### **National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

#### **15.2. Chemical safety assessment**

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

Amines, polyethylenepoly-, triethylenetetramine fraction

m-phenylenebis(methylamine)

2,4,6-tris(dimethylaminomethyl)phenol

### SECTION 16: Other information

#### **Changes**

This data sheet contains changes from the previous version in section(s): 2,3,8,11.

#### **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 concernant 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 Regulations 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

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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 Corr. 1B; H314	
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

#### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H332 Harmful if inhaled.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH071 Corrosive to the respiratory tract.

#### Further Information

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself.  
 No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose.  
 The user must make their own determination as to suitability.

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