

Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 27.05.2019

Version: 1.0

Product: **Naftoseal MC-780 C-2 Hardener**

(ID no. 30708263/SDS_GEN_GB/EN)

Date of print 16.09.2019

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

1.1. Product identifier

Naftoseal MC-780 C-2 Hardener

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

Recommended use: Hardener for coating materials or adhesives for industrial or professional use

Not recommended use: None known

1.3. Details of the supplier of the safety data sheet

Company:
Chemetall GmbH
Trakehner Straße, 3
60487, Frankfurt am Main
Germany
+49(0)69 7165-0
sds.global-chemetall@basf.com

Contact address:
Chemetall Ltd.
Denbigh Road 65
Bletchley Milton Keynes MK1 1PB
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Telephone: +44 1908 649333
E-mail address: sds.global-chemetall@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 2
STOT RE 1

H319, H315, H302, H372

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P321	Specific treatment (see on this label).

Precautionary Statements (Disposal):

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P501 Dispose of contents/container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: phthalic anhydride

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: manganese dioxide

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

This product contains (a) substance(s) included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH') in a concentration equal or above 0.1% w/w: Nonylphenol Ethoxylate

organic, inorganic

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

phthalic anhydride

Content (W/W): $\geq 0.3\%$ - $< 0.5\%$	Acute Tox. 4 (oral)
CAS Number: 85-44-9	Skin Corr./Irrit. 2
EC-Number: 201-607-5	Eye Dam./Irrit. 1
REACH registration number: 01-2119457017-41	Resp. Sens. 1
INDEX-Number: 607-009-00-4	Skin Sens. 1
	STOT SE 3 (irr. to respiratory syst.)
	H318, H315, H302, H334, H317, H335

sodium hydroxide

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Content (W/W): $\geq 0.5\%$ - $< 1\%$	Met. Corr. 1
CAS Number: 1310-73-2	Skin Corr./Irrit. 1A
EC-Number: 215-185-5	Eye Dam./Irrit. 1
REACH registration number: 01-2119457892-27	H290, H314
INDEX-Number: 011-002-00-6	<u>Specific concentration limit:</u>
	Skin Corr./Irrit. 1A: $\geq 5\%$
	Skin Corr./Irrit. 1B: $2 - < 5\%$
	Skin Corr./Irrit. 2: $0.5 - < 2\%$
	Eye Dam./Irrit. 2: $0.5 - < 2\%$

manganese dioxide

Content (W/W): $\geq 50\%$ - $< 75\%$	Acute Tox. 4 (Inhalation - dust)
CAS Number: 1313-13-9	Acute Tox. 4 (oral)
EC-Number: 215-202-6	STOT RE (Central nervous system) 1
REACH registration number: 01-2119452801-43	H372, H302 + H332

sulfur

Content (W/W): $\geq 1\%$ - $< 2\%$	Skin Corr./Irrit. 2
CAS Number: 7704-34-9	H315
EC-Number: 231-722-6	
REACH registration number: 01-2119422098-42	
INDEX-Number: 016-094-00-1	

Bis(piperidinothiocarbonyl) hexasulphide

Content (W/W): $\geq 3\%$ - $< 5\%$	Aquatic Chronic 4
CAS Number: 971-15-3	H413
EC-Number: 213-537-2	
REACH registration number: 01-2119974270-39	

Nonylphenol Ethoxylate

Content (W/W): $\geq 0.1\%$ - $< 0.2\%$	Acute Tox. 4 (oral)
CAS Number: 68412-54-4	Eye Dam./Irrit. 1
EC-Number: 500-209-1	Aquatic Chronic 2
	H318, H302, H411

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. Remove affected person from danger area. Immediately remove contaminated clothing. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

On skin contact:

Wash affected areas thoroughly with soap and water. If symptoms persist, seek medical advice.

On contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. Seek medical attention.

On ingestion:

Rinse mouth immediately with water. Do not induce vomiting. Seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, dry powder, alcohol-resistant foam, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

carbon oxides, sulfur oxides, metal oxides

5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool endangered containers with water-spray.

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SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). The workplace should be equipped with an emergency shower and eye-rinsing facility. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

Keep away from sources of ignition - No smoking. The relevant fire protection measures should be noted.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container dry. Keep container tightly closed in a cool, well-ventilated place. The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep only in the original container. Avoid direct sunlight.

Storage stability:

Storage temperature: < 26 °C

Storage duration: 12 Months

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

85-44-9: phthalic anhydride

TWA value 4 mg/m³ (WEL/EH 40 (UK))

STEL value 12 mg/m³ (WEL/EH 40 (UK))

1310-73-2: sodium hydroxide

STEL value 2 mg/m³ (WEL/EH 40 (UK))

1313-13-9: manganese dioxide

TWA value 0.5 mg/m³ (WEL/EH 40 (UK))

Measured as: manganese (Mn)

TWA value 0.2 mg/m³ (OEL (EU)), Inhalable fraction

Measured as: manganese (Mn)

indicative

TWA value 0.05 mg/m³ (OEL (EU)), Respirable fraction

Measured as: manganese (Mn)

indicative

TWA value 0.05 mg/m³ (WEL/EH 40 (UK)), Respirable fraction

Measured as: manganese (Mn)

Biological limit values (BLV)

No data available.

Components with PNEC

85-44-9: phthalic anhydride

freshwater: 1 mg/l

marine water: 0.1 mg/l

intermittent release: 5.6 mg/l

STP: 10 mg/l

sediment (freshwater): 3.8 mg/kg

sediment (marine water): 0.38 mg/kg

soil: 0.173 mg/kg

1313-13-9: manganese dioxide

freshwater: 0.00014 mg/l

marine water: 0.000014 mg/l

sediment (freshwater): 0.037 mg/kg

sediment (marine water): 0.0037 mg/kg

soil: 0.028 mg/kg

STP: 100 mg/l

intermittent release: 0.00074 mg/l

68412-54-4: Nonylphenol Ethoxylate

intermittent release: 1.48 µg/l

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freshwater: 10 µg/l
 marine water: 1 µg/l
 sediment (marine water): 0.46 mg/kg
 soil: 0.34 mg/kg
 STP: 10 mg/l
 sediment (freshwater): 4.6 mg/kg

Components with DNEL

85-44-9: phthalic anhydride

worker: Long-term exposure- systemic effects, dermal: 10 mg/kg
 worker: Long-term exposure- systemic effects, Inhalation: 32.3 mg/m³
 consumer: Long-term exposure- systemic effects, dermal: 5 mg/kg
 consumer: Long-term exposure- systemic effects, Inhalation: 8.6 mg/m³
 consumer: Long-term exposure- systemic effects, oral: 5 mg/kg

1310-73-2: sodium hydroxide

worker: Long-term exposure - local effects, Inhalation: 1.0 mg/m³

1313-13-9: manganese dioxide

worker: Long-term exposure- systemic effects, Inhalation: 0.2 mg/m³

971-15-3: Bis(piperidinothiocarbonyl) hexasulphide

consumer: Long-term exposure- systemic effects, by inhalation: 2.9 mg/m³
 Repeated dose toxicity
 consumer: Long-term exposure- systemic effects, oral: 1.67 mg/kg
 Repeated dose toxicity
 worker: Long-term exposure- systemic effects, dermal: 3.33 mg/kg
 Repeated dose toxicity
 consumer: Long-term exposure- systemic effects, dermal: 1.67 mg/kg
 Repeated dose toxicity
 worker: Long-term exposure- systemic effects, by inhalation: 11.7 mg/m³
 Repeated dose toxicity

68412-54-4: Nonylphenol Ethoxylate

worker: Long-term exposure- systemic effects, by inhalation: 4.7 mg/m³
 Repeated dose toxicity
 worker: Long-term exposure- systemic effects, dermal: 66.7 mg/kg
 Repeated dose toxicity

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. (Gas filter EN 14387 A)

Hand protection:

nitrile rubber (Buna N)

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Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions.

Chemical resistant protective gloves (EN 374)

Further information on penetration time is available from the manufacturer of the glove.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures

Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid
Colour:	brown
Odour:	characteristic
pH value:	not applicable
Melting point:	not determined
onset of boiling:	not determined
Flash point:	> 99 °C
Flammability:	hardly combustible
Lower explosion limit:	not determined
Ignition temperature:	not determined
Vapour pressure:	(20 °C) not determined
Density:	(50 °C) not determined 1.700 g/cm ³
Solubility in water:	(20 °C) practically insoluble

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Viscosity, dynamic: 400,000 mPa*s
Brookfield
Viscosity, kinematic:
(40 °C)
not determined
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

9.2. Other information

Self heating ability: It is not a substance capable of spontaneous heating.

Miscibility with water:
immiscible

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

10.5. Incompatible materials

Substances to avoid:
strong reducing agents

10.6. Hazardous decomposition products

Possible decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

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Assessment of acute toxicity:
Of moderate toxicity after single ingestion.

Information on: phthalic anhydride

Experimental/calculated data:
LD50 rat (oral): 1,530 mg/kg

Irritation

Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Respiratory/Skin sensitization

Assessment of sensitization:
Based on available Data, the classification criteria are not met.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available Data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available Data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Based on available Data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
Based on available Data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure to small quantities may affect certain organs.

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Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

No data available concerning biodegradation and elimination.

12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice:

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water channels.

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SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

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user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

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14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 46, 3

15.2. Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.

The general risk management measures related to the physico-chemical hazard of the product are communicated in chapter 2-14 of this SDS; they are to be considered by the (downstream) user when assessing the risks in accordance with his specific operating conditions and workplace environment.

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT RE	Specific target organ toxicity — repeated exposure
Resp. Sens.	Respiratory sensitization
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Met. Corr.	Corrosive to metals

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Aquatic Chronic	Hazardous to the aquatic environment - chronic
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H372	Causes damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H372	Causes damage to organs (Central nervous system) through prolonged or repeated exposure.
H302 + H332	Harmful if swallowed or if inhaled
H413	May cause long lasting harmful effects to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: sds.global-chemetall@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.