

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 1/10  
(30737831/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Naftoseal MC-780 A-1/2 Base

#### Recommended use of the chemical and restriction on use

Recommended use\*: Sealant

Unsuitable for use: Uses other than recommended

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Chemical family: organic

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### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Flam. Liq.	3	Flammable liquids

#### Label elements

Pictogram:

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 2/10  
(30737831/SDS\_GEN\_US/EN)



Signal Word:  
Warning

Hazard Statement:

H226 Flammable liquid and vapour.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P242 Use only non-sparking tools.  
P241 Use explosion-proof electrical, ventilating and lighting equipment.  
P243 Take action to prevent static discharges.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.

Precautionary Statements (Response):

P303 + P361 + P353 IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P370 + P378 In case of fire: Use water spray for extinction.

Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

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

### Hazards not otherwise classified

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.

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### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

ethyl acetate

CAS Number: 141-78-6  
Content (W/W):  $\geq 7.0$  -  $< 10.0\%$   
Synonym: Acetic acid, ethyl ester

carbon black

CAS Number: 1333-86-4  
Content (W/W):  $\geq 0.3$  -  $< 1.0\%$   
Synonym: C.I. 77266

Titanium dioxide

CAS Number: 13463-67-7

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 3/10  
(30737831/SDS\_GEN\_US/EN)

Content (W/W):  $\geq 15.0$  -  $< 20.0\%$   
Synonym: C.I. Pigment White 6

### crystalline silica

CAS Number: 14808-60-7  
Content (W/W):  $> 0.0$  -  $< 0.1\%$   
Synonym: No data available.

### Limestone

CAS Number: 1317-65-3  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: No data available.

### Liquid polysulphide polymer with thiol end groups (MW>1800)

CAS Number: 68611-50-7  
Content (W/W):  $\geq 25.0$  -  $< 50.0\%$   
Synonym: No data available.

### Liquid polysulphide polymer with thiol end groups (MW<1800)

CAS Number: 68611-50-7  
Content (W/W):  $\geq 15.0$  -  $< 20.0\%$   
Synonym: No data available.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

#### If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

#### If in eyes:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

#### If swallowed:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 4/10  
(30737831/SDS\_GEN\_US/EN)

*Information on: Titanium dioxide*

*Symptoms: Overexposure may cause:; rhinitis, irritation of the mucous membranes, irritates the eyes and respiratory tract, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Antidote: No known specific antidote.  
Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Appropriate breathing apparatus may be required.

### Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

### Methods and material for containment and cleaning up

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. Ensure adequate ventilation.

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 5/10  
(30737831/SDS\_GEN\_US/EN)

### 7. Handling and Storage

#### Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

#### Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

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

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

#### Storage stability:

Storage temperature: < 26 °C

### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

Formaldehyde	ACGIH, US:	STEL value 0.3 ppm ;
	ACGIH, US:	TWA value 0.1 ppm ;
	OSHA, US:	STEL value 2 ppm ;
	OSHA, US:	OSHA Action level 0.5 ppm ;
	OSHA, US:	TWA value 0.75 ppm ;
ethyl acetate	ACGIH, US:	TWA value 400 ppm ;
	OSHA Z1:	PEL 400 ppm 1,400 mg/m3 ;
carbon black	ACGIH, US:	TWA value 3 mg/m3 Inhalable fraction ;
	OSHA Z1:	PEL 3.5 mg/m3 ;
Titanium dioxide	ACGIH, US:	TWA value 10 mg/m3 ;
	OSHA Z1:	PEL 15 mg/m3 Total dust ;

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 6/10  
(30737831/SDS\_GEN\_US/EN)

crystalline silica	OSHA, US:	TWA value 0.05 mg/m <sup>3</sup> (Respirable dust);
	OSHA, US:	OSHA Action level 0.025 mg/m <sup>3</sup> (Respirable dust);
	ACGIH, US:	TWA value 0.025 mg/m <sup>3</sup> Respirable fraction ;
Limestone	OSHA Z1:	PEL 5 mg/m <sup>3</sup> Respirable fraction ;
	OSHA Z1:	PEL 15 mg/m <sup>3</sup> Total dust ;
	ACGIH, US:	TWA value 10 mg/m <sup>3</sup> Inhalable particles ;
	ACGIH, US:	TWA value 3 mg/m <sup>3</sup> Respirable particles ;
	OSHA Z3:	TWA value 5 mg/m <sup>3</sup> Respirable fraction ;
	OSHA Z3:	TWA value 15 mg/m <sup>3</sup> Total dust ;
	OSHA Z3:	TWA value 15 millions of particles per cubic foot of air Respirable fraction ;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot of air Total dust ;

### **Personal protective equipment**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate.

#### **Hand protection:**

Chemical resistant protective gloves (EN ISO 374-1), chloroprene rubber (CR) - 0.5 mm coating thickness, butyl rubber gloves - material thickness: 0.5 mm, nitrile rubber (NBR) - 0.4 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

#### **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. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

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## 9. Physical and Chemical Properties

Form:	liquid
Odour:	No applicable information available.
Odour threshold:	not determined
Colour:	grey
pH value:	substance/mixture is non-soluble (in water)
Melting point:	not determined
Freezing point:	not determined
onset of boiling:	not determined

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 7/10  
(30737831/SDS\_GEN\_US/EN)

Boiling range:	not determined
Sublimation point:	No applicable information available.
Flash point:	25 °C
Flammability:	Flammable liquid and vapour.
Lower explosion limit:	not determined
Upper explosion limit:	No applicable information available.
Autoignition:	not determined
Vapour pressure:	( 20 °C) not determined
Density:	1.200 g/cm <sup>3</sup> ( 20 °C)
Relative density:	No data available.
Vapour density:	not determined
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	6.0 mm <sup>2</sup> /s ( 20 °C)
Solubility in water:	practically insoluble
Miscibility with water:	immiscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	not determined

## 10. Stability and Reactivity

### Reactivity

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

Oxidizing properties:  
not fire-propagating

### Chemical stability

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

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

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

### Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermic reactions.

### Hazardous decomposition products

Decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological information

### Primary routes of exposure

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 8/10  
(30737831/SDS\_GEN\_US/EN)

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Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Oral

No applicable information available.

#### Inhalation

No applicable information available.

#### Dermal

No applicable information available.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: No applicable information available.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects. Do not allow to enter drains or waterways. There are no test results available for this product.

### Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

No data available concerning biodegradation and elimination.

### Bioaccumulative potential

#### Bioaccumulation potential

No data available.

### Mobility in soil

#### Assessment transport between environmental compartments

No data available.

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## 13. Disposal considerations

### Waste disposal of substance:

Observe national and local legal requirements. No disposal via sewage or waste water systems.

### Container disposal:

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

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 9/10  
(30737831/SDS\_GEN\_US/EN)

### 14. Transport Information

#### Land transport

USDOT

Hazard class: 3  
Packing group: III  
ID number: UN 1133  
Hazard label: 3  
Proper shipping name: ADHESIVES

#### Sea transport

IMDG

Hazard class: 3  
Packing group: III  
ID number: UN 1133  
Hazard label: 3  
Marine pollutant: NO  
Proper shipping name: ADHESIVES

#### Air transport

IATA/ICAO

Hazard class: 3  
Packing group: III  
ID number: UN 1133  
Hazard label: 3  
Proper shipping name: ADHESIVES

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### State regulations

##### State RTK

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	141-78-6	ethyl acetate
	13463-67-7	Titanium dioxide
	1317-65-3	Limestone
PA	141-78-6	ethyl acetate
	13463-67-7	Titanium dioxide
	1333-86-4	carbon black

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Base

Revision date : 2021/08/16  
Version: 5.0

Page: 10/10  
(30737831/SDS\_GEN\_US/EN)

**WARNING:** This product can expose you to chemicals including TITANIUM DIOXIDE (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE), which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**NFPA Hazard codes:**

Health: 0      Fire: 3      Reactivity: 1      Special:

**HMIS III rating**

Health: 0      Flammability: 3      Physical hazard: 1

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2021/08/16

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date : 2022/08/25  
Version: 4.0

Page: 1/10  
(30739494/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Naftoseal MC-780 A-1/2 Hardener

#### Recommended use of the chemical and restriction on use

Recommended use\*: Hardener for coating materials or adhesives for industrial or professional use  
Unsuitable for use: Uses other than recommended

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Chemical family: mixture, organic, inorganic

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Resp. Sens.	1	Respiratory sensitization
Skin Sens.	1	Skin sensitization

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 2/10  
(30739494/SDS\_GEN\_US/EN)

STOT RE 1 Specific target organ toxicity — repeated exposure

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P260 Do not breathe dust or mist.  
P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
P264 Wash contaminated body parts thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P261 Avoid breathing dust or fume.  
P261 Avoid breathing mist or vapour or spray.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P330 Rinse mouth  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P337 + P313 If eye irritation persists: Get medical attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P314 Get medical advice/attention if you feel unwell.

Precautionary Statements (Disposal):

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

### Hazards not otherwise classified

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 3/10  
(30739494/SDS\_GEN\_US/EN)

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.

### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

manganese dioxide

CAS Number: 1313-13-9  
Content (W/W):  $\geq 50.0$  -  $< 75.0\%$   
Synonym: Manganese dioxide

sulfur

CAS Number: 7704-34-9  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: Sulfur, precipitated, sublimed or colloidal

phthalic anhydride

CAS Number: 85-44-9  
Content (W/W):  $\geq 0.3$  -  $< 1.0\%$   
Synonym: 1,3-Isobenzofurandione; Phthalic anhydride

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

##### If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

##### If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

##### If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

##### If swallowed:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

#### Most important symptoms and effects, both acute and delayed

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 4/10  
(30739494/SDS\_GEN\_US/EN)

Symptoms: Eye irritation, allergic symptoms, skin irritation, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

*Information on: manganese dioxide*

*Symptoms: Overexposure may cause: dyspnea, pneumonitis, fever, coughing*

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Antidote: No known specific antidote.  
Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Appropriate breathing apparatus may be required.

### Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 5/10  
(30739494/SDS\_GEN\_US/EN)

### Methods and material for containment and cleaning up

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. Ensure adequate ventilation.

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## 7. Handling and Storage

### Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

### Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Stove-lacquer EHD0022, Polypropylene (PP), High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), tinned carbon steel (Tinplate), Carbon steel (Iron), Stove-lacquer R 78433, Stainless steel 1.4301 (V2)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Storage stability:

Storage temperature: < 26 °C

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

phthalic anhydride	OSHA Z1:	PEL 2 ppm 12 mg/m <sup>3</sup> ;
	ACGIH, US:	TWA value 0.002 mg/m <sup>3</sup> Inhalable fraction and vapor ;
	ACGIH, US:	STEL value 0.005 mg/m <sup>3</sup> Inhalable fraction and vapor ;
	ACGIH, US:	Skin Designation Inhalable fraction and vapor ; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation Inhalable fraction and vapor ; Danger of cutaneous absorption

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 6/10  
(30739494/SDS\_GEN\_US/EN)

### **Personal protective equipment**

Respiratory protection:  
Wear respiratory protection if ventilation is inadequate.

Hand protection:  
Chemical resistant protective gloves (EN ISO 374-1), nitrile rubber (NBR) - 0.4 mm coating thickness, butyl rubber gloves - material thickness: 0.5 mm, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

**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. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	not determined	
Colour:	brown	
pH value:	substance/mixture is non-soluble (in water)	
Freezing point:	not determined	
Melting point:	not determined	
onset of boiling:	not determined	
Boiling range:	not determined	
Sublimation point:	No applicable information available.	
Flash point:	not applicable	
Flammability:	not applicable	
Lower explosion limit:	not determined	
Upper explosion limit:	not determined	
Autoignition:	not determined	
Vapour pressure:	( 20 °C) not determined	
Density:	1.700 g/cm <sup>3</sup> ( 20 °C)	(DIN 51757)
Relative density:	No applicable information available.	
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	No applicable information available.	
Solubility in water:	not soluble	

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 7/10  
(30739494/SDS\_GEN\_US/EN)

Miscibility with water:	immiscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	not determined

---

## 10. Stability and Reactivity

### Reactivity

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

Oxidizing properties:  
not fire-propagating

### Chemical stability

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

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

Avoid direct sunlight.

### Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

### Hazardous decomposition products

Decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

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

#### Assessment other acute effects

Assessment of STOT single:

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

#### Irritation / corrosion

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

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 8/10  
(30739494/SDS\_GEN\_US/EN)

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### Sensitization

Assessment of sensitization: The substance may cause sensitization of the respiratory tract.  
Sensitization after skin contact possible.

### Aspiration Hazard

No aspiration hazard expected.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

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

### Genetic toxicity

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.

### Teratogenicity

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

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## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways.  
Based on available data, the classification criteria are not met.

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

No data available concerning biodegradation and elimination.

### **Bioaccumulative potential**

#### Bioaccumulation potential

No data available.

### **Mobility in soil**

#### Assessment transport between environmental compartments

No data available.

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## **13. Disposal considerations**

Waste disposal of substance:

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 9/10  
(30739494/SDS\_GEN\_US/EN)

Observe national and local legal requirements. No disposal via sewage or waste water systems.

### Container disposal:

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

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## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

##### CAS Number

1313-13-9

Chemical name

manganese dioxide

### State regulations

#### State RTK

NJ

#### CAS Number

1313-13-9

#### Chemical name

manganese dioxide

PA

7704-34-9

sulfur

1313-13-9

manganese dioxide

7704-34-9

sulfur

68515-40-2

Benzyl-octyl-phthalate

#### NFPA Hazard codes:

Health: 2

Fire: 1

Reactivity: 1

Special:

#### HMIS III rating

Health: 2<sup>a</sup>

Flammability: 1

Physical hazard: 1

# Safety Data Sheet

## Naftoseal MC-780 A-1/2 Hardener

Revision date: 2022/08/25  
Version: 4.0

Page: 10/10  
(30739494/SDS\_GEN\_US/EN)

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### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2022/08/25

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