Safety Data Sheet
NAFTOSEAL MC-110

1. Identification

Product identifier used on the label

NAFTOSEAL MC-110

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:
Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974 – USA
+1 800 526-4473
sds.na-chemetall@basf.com

Emergency telephone number
24 Hour Emergency Response Information
CHEMTREC: 800-424-9300, +1-703-527-3887

Other means of identification
Chemical family: organic compounds, Water, organic solvent

2. Hazards Identification

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

Classification of the product

Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	3 (May cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
Flam. Liq.	3	Flammable liquids

Repr.	1 (unborn child)	Reproductive toxicity

Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H360	May damage the unborn child.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P201	Obtain special instructions before use.
P261	Avoid breathing mist or vapour or spray.
P242	Use 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.
P202	Do not handle until all safety precautions have been read and understood.

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.
P370 + P378	In case of fire: Use water spray for extinction.
P310	Immediately call a POISON CENTER or physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
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.

3. Composition / Information on Ingredients

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

1-methoxypropan-2-ol
CAS Number: 107-98-2
Content (W/W): >= 50.0 - < 75.0%
Synonym: 1-Methoxy-2-propanol; Propylene glycol monomethyl ether

Ethanol
CAS Number: 64-17-5
Content (W/W): >= 5.0 - < 7.0%
Synonym: Ethanol; Ethyl alcohol

Isobutanol
CAS Number: 78-83-1
Content (W/W): >= 5.0 - < 7.0%
Synonym: 2-Methyl-1-propanol; Isobutanol

5-Methylhexan-2-one
CAS Number: 110-12-3
Content (W/W): >= 3.0 - < 5.0%
Synonym: No data available.

Bis(pentane-2,4-dionato-O,O')bis(propan-2-olato)titanium
CAS Number: 17927-72-9
Content (W/W): >= 3.0 - < 5.0%
Synonym: No data available.

2-Propanol
CAS Number: 67-63-0
Content (W/W): >= 1.0 - < 3.0%
Synonym: 2-Propanol; Isopropyl alcohol, Isopropanol

2-methoxypropanol
CAS Number: 1589-47-5
Content (W/W): >= 0.1 - < 0.2%
Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:
Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:
Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. 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:
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.

Information on: Ethanol
Symptoms: Overexposure may cause:, headache, dizziness, nausea, unconsciousness

Information on: 2-Propanol
Symptoms: Overexposure may cause:, headache, dizziness, coordination disorder, coma, abdominal cramps, nausea, vomiting

Information on: Isobutanol
Symptoms: Overexposure may cause:, coma, coordination disorder, headache, dizziness

Information on: 1-methoxypropan-2-ol
Symptoms: Overexposure may cause:, lacrimation

Information on: 5-Methylhexan-2-one
Symptoms: Overexposure may cause:, unconsciousness, coma, headache, dizziness

Information on: 2-methoxypropanol
Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, 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).

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:
carbon oxides
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.

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.

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. Segregate from acids and acid forming substances.

Suitable materials for containers: Aluminium, High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep away from heat. 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

Ethanol	ACGIH, US:	STEL value 1,000 ppm ;
	OSHA Z1:	PEL 1,000 ppm 1,900 mg/m3 ;
2-Propanol	ACGIH, US:	STEL value 400 ppm ;
	ACGIH, US:	TWA value 200 ppm ;
	OSHA Z1:	PEL 400 ppm 980 mg/m3 ;
Isobutanol	ACGIH, US:	TWA value 50 ppm ;
	OSHA Z1:	PEL 100 ppm 300 mg/m3 ;
1-methoxypropan-2-ol	ACGIH, US:	TWA value 50 ppm ;
	ACGIH, US:	STEL value 100 ppm ;
5-methylhexan-2-one	ACGIH, US:	STEL value 50 ppm ;
	ACGIH, US:	TWA value 20 ppm ;
	OSHA Z1:	PEL 100 ppm 475 mg/m3 ;

5-Methylhexan-2-one	ACGIH, US:	STEL value 50 ppm ;
	ACGIH, US:	TWA value 20 ppm ;
	OSHA Z1:	PEL 100 ppm 475 mg/m3 ;

Personal protective equipment

Respiratory protection:
Respiratory protection required if exposure limit (if available) may be exceeded

Hand protection:
Chemical resistant protective gloves (EN ISO 374-1), 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.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	No applicable information available.	
Colour:	light red	
pH value:	10.3	
Melting point:	not determined	
Freezing point:	not determined	
onset of boiling:	94 °C	(calculated)
Boiling range:	not determined	
Sublimation point:	No applicable information available.	
Flash point:	36 °C	(ISO 2719)
Flammability:	Flammable liquid and vapour.	
Lower explosion limit:	1.5 %(V)	
Upper explosion limit:	10.9 %(V)	
Autoignition:	277.0 °C	
	No data available.	
Vapour pressure:	23.00 hPa	(calculated)
	(20 °C)	
Density:	0.950 g/cm3	
	(20 °C)	

Relative density:	No applicable information available.
	No applicable information available.
Vapour density:	Water content greater than 10%.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Self-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	No applicable information available.
Solubility in water:	miscible
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

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
Vapours may form ignitable mixture with air.

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

Incompatible materials
acid forming substances, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions., acids

Hazardous decomposition products

Decomposition products:
Possible 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.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

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

Oral
Type of value: ATE
Value: 344,828 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation
Type of value: ATE
Value: 322 mg/l
The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal
Type of value: ATE
Value: > 2,000 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects
Assessment of STOT single:
Possible narcotic effects (drowsiness or dizziness).

Irritation / corrosion
Assessment of irritating effects: May cause severe damage to the eyes.

Information on: Ethanol
Assessment of irritating effects: Not irritating to the skin. Moderately irritating to the eyes.

Information on: 2-Propanol
Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Information on: Isobutanol
Assessment of irritating effects: May cause severe damage to the eyes. Skin contact causes irritation.

Information on: Bis(pentane-2,4-dionato-O,O')bis(propan-2-olato)titanium
Assessment of irritating effects: No reliable data was available concerning skin irritation. Eye contact causes irritation.

Information on: 2-methoxypropanol
Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

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

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

Information on: 2-Propanol
Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated inhalation.

Information on: 1-methoxypropan-2-ol
Assessment of repeated dose toxicity: May affect the liver as indicated in animal studies. The substance may cause damage to the kidney after repeated inhalation. Effect found in rodents only. The relevance to humans is questionable.

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.

Information on: Ethanol
Assessment of carcinogenicity: The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. The whole of the information assessable provides no indication of a carcinogenic effect.

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

Information on: Ethanol
Assessment of reproduction toxicity: The potential to impair fertility cannot be excluded when given at high doses.
Significant overexposure during pregnancy may cause birth defects.

Information on: 1-methoxypropan-2-ol
Assessment of reproduction toxicity: The potential to impair fertility cannot be excluded when given at maternally toxic doses.

Teratogenicity
Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

Information on: Ethanol
Assessment of teratogenicity: At high doses there are indications of a developmental effect.
A teratogenic potential cannot be excluded.

Information on: 5-Methylhexan-2-one

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Information on: 2-methoxypropanol
Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.
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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 (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.

13. Disposal considerations

Waste disposal of substance:
Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

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

14. Transport Information

Land transport
USDOT

Hazard class:	3
Packing group:	III
ID number:	UN 1987
Hazard label:	3
Proper shipping name:	ALCOHOLS, N.O.S. (contains ISOBUTANOL, 1-METHOXYPROPANOL-2)

Sea transport
IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 1987
Hazard label:	3
Marine pollutant:	NO
Proper shipping name:	ALCOHOLS, N.O.S. (contains ISOBUTANOL, 1-METHOXYPROPANOL-2)

Air transport
IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 1987
Hazard label:	3
Proper shipping name:	ALCOHOLS, N.O.S. (contains ISOBUTANOL, 1-METHOXYPROPANOL-2)

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	Chemical name
67-63-0	2-Propanol

CERCLA RQ	CAS Number	Chemical name
100 LBS	64-17-5; 67-63-0; 107-98-2	Ethanol; 2-Propanol; 1-methoxypropan-2-ol

State regulations

State RTK	CAS Number	Chemical name
NJ	67-63-0	2-Propanol
	78-83-1	Isobutanol
	107-98-2	1-methoxypropan-2-ol
	110-12-3	5-Methylhexan-2-one
	64-17-5	Ethanol
PA	64-17-5	Ethanol
	67-63-0	2-Propanol
	78-83-1	Isobutanol
	107-98-2	1-methoxypropan-2-ol
	110-12-3	5-Methylhexan-2-one

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

WARNING: This product can expose you to chemicals including D&C RED NO. 19, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:
Health: 3 Fire: 3 Reactivity: 1 Special:

HMIS III rating
Health: 3¤ Flammability: 3 Physical hazard: 1

16. Other Information

SDS Prepared by:
Chemetall (now part of BASF Group) NA Product Regulations
SDS Prepared on: 2024/07/30

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