

Safety data sheet

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BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 03.01.2018

Version: 6.0

Product: **Tamol* NN 9104**

(ID no. 10001712/SDS_GEN_GB/EN)

Date of print 15.05.2019

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

1.1. Product identifier

Tamol* NN 9104

Chemical name: naphthalenesulfonic acid-formaldehyde-polycondensate as sodium salt

CAS Number: 9084-06-4

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

1.3. Details of the supplier of the safety data sheet

Company:

BTC Europe GmbH
Rheinpromenade 1
40789 Monheim, Germany

Contact address:

BTC Europe GmbH
Rheinpromenade 1
40789 Monheim, Germany
Branch:
BTC Europe GmbH
Industriestr. 20
91593 Burgbernheim

Telephone: +49 2173 3347-0

E-mail address: btc-productsafety@btc-europe.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]

No need for classification according to GHS criteria for this product.

2.2. Label elements

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

2.3. Other hazards

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

Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

naphthalenesulfonic acid-formaldehyde-polycondensate as sodium salt
CAS Number: 9084-06-4

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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On ingestion:

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

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

Symptoms: No significant symptoms are expected due to the non-classification of the product.

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:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

5.2. Special hazards arising from the substance or mixture

harmful vapours, carbon oxides

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations. Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

SECTION 6: Accidental Release Measures

Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

6.1. Personal precautions, protective equipment and emergency procedures

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Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, section 8.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust. Dispose of absorbed material in accordance with regulations.

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 exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), glass, Paper/Fibreboard, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

| No occupational exposure limits known.

8.2. Exposure controls

Personal protective equipment

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Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g.

temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment.

No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | | |
|----------------------|---|-------------|
| Form: | powder | |
| Colour: | light brown | |
| Odour: | faint specific odour | |
| Odour threshold: | not determined | |
| pH value: | approx. 10 (100 g/l, 20 - 25 °C) | (DIN 19268) |
| Melting temperature: | > 260 °C The substance / product decomposes. | |
| Boiling point: | not determined | |
| Flash point: | not applicable, the product is a solid | |
| Evaporation rate: | The product is a non-volatile solid. | |

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| | | |
|---|---|------------------------------------|
| Flammability: | not self-igniting | |
| Lower explosion limit: | For solids not relevant for classification and labelling. | |
| Upper explosion limit: | For solids not relevant for classification and labelling. | |
| Ignition temperature: | > 500 °C | (VDI 2263, sheet 1, 2.6) |
| Vapour pressure: | not applicable | |
| Density: | Study does not need to be conducted. | |
| Relative density: | No data available. | |
| Relative vapour density (air): | The product is a non-volatile solid. | |
| Solubility in water: | approx. 400 g/l (20 °C) | |
| Solubility (qualitative) solvent(s): | polar solvents soluble | |
| Solubility (quantitative) solvent(s): | polar solvents approx. 450 g/l | |
| Partitioning coefficient n-octanol/water (log Kow): | not applicable | |
| Self ignition: | Temperature: 279 °C | (Method: VDI 2263, sheet 1, 1.4.1) |
| Thermal decomposition: | 170 °C, 70 J/g, (DSC (DIN 51007)) 435 °C, > 150 kJ/kg, (DSC (DIN 51007)) | |
| Viscosity, dynamic: | not applicable, the product is a solid | |
| Viscosity, kinematic: | not applicable, the product is a solid | |
| Explosion hazard: | Product is not explosive, however a dust explosion could result from an air / dust mixture. | |
| Fire promoting properties: | not fire-propagating | |

9.2. Other information

| | | |
|--------------------------|---|----------------|
| Minimum ignition energy: | 1 - 4 J | (DIN EN 13821) |
| | Inductivity: 1 mH | |
| | The product is capable of dust explosion. | |
| Bulk density: | approx. 500 kg/m ³ | (DIN ISO 697) |
| Hygroscopy: | hygroscopic | |
| Grain size distribution: | No data available. | |
| Other Information: | | |
| | If necessary, information on other physical and chemical parameters is indicated in this section. | |

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SECTION 10: Stability and Reactivity

10.1. Reactivity

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

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Dust explosion hazard.

10.4. Conditions to avoid

Avoid humidity. Avoid dust formation. Avoid deposition of dust. See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

strong acids, peroxides, strong oxidizing agents, water reactive substances

10.6. Hazardous decomposition products

Hazardous decomposition products:

The substances/groups of substances mentioned may be released during processing., formaldehyde

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 2,000 - 5,000 mg/kg (other)

rat (by inhalation): 8 h (IRT)

No mortality within the stated exposition time as shown in animal studies.

LD50 rat (dermal): > 2,000 mg/kg (other)

Irritation

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Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect.

Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

Developmental toxicity

Assessment of teratogenicity:

No data available.

Experiences in humans

Experimental/calculated data:

May lead to a skin reaction in people already sensitised with formaldehyde.

Specific target organ toxicity (single exposure)

Remarks: No data available.

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

Assessment of repeated dose toxicity:

No data available.

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Aspiration hazard

not applicable

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1)

Aquatic invertebrates:

LC50 (48 h), daphnia

not determined

Aquatic plants:

EC50 (72 h), algae

not determined

Microorganisms/Effect on activated sludge:

EC10 > 5,000 mg/l, activated sludge (DEV-L2, aquatic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

At environmentally relevant purification plant concentrations of <1mg/l the elimination of the product from water is good.

Elimination information:

> 90 % C-14 labelling (ISO 9439, Annex D (Kombitest)) (activated sludge, industrial) In tests with reduced concentrations, elimination of the substance from water is good.

12.3. Bioaccumulative potential

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Assessment bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is possible.

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 fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

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

Sum parameter

Chemical oxygen demand (COD): 1,450 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 190 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition. Do not allow to enter soil, waterways or waste water channels.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

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Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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

Transport in inland waterway vessel

Not evaluated

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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.

14.5. Environmental hazards

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

14.6. Special precautions for user

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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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

SECTION 16: Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

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: btc-productsafety@btc-europe.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.

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

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Annex: Exposure Scenarios

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1. Manufacture of substance

SU3, SU22; ERC1; PROC1, PROC2, PROC3, PROC4

2. Formulation & (re)packing of substances and mixtures

SU3, SU22; PROC8a, PROC8b, PROC9

3. Use in Functional Fluids

SU3; ERC8a, ERC8d, ERC9a, ERC9b; PROC17, PROC18, PROC19

4. Use as a Process chemical

SU3, SU22; ERC4; PROC1, PROC2, PROC3, PROC4

5. Formulation

SU3, SU10, SU22; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5

6.

SU3; SU3, SU9; ERC1, ERC4, ERC6a, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

7.

SU3; SU3, SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

8.

SU3; SU3, SU17; ERC4, ERC5, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

9.

SU22; SU22; ERC8a, ERC8c, ERC8d, ERC8f; PROC5, PROC9, PROC10, PROC11, PROC19

10.

SU22; SU22; ERC8a, ERC8b, ERC8d, ERC8e; PROC19

11.

SU22; SU22; ERC8a, ERC8d; PROC11, PROC13, PROC19

12.

SU21; SU21; ERC8a, ERC8c, ERC8d, ERC8f; PC9, PC12, PC35, PC39

13.

SU3; SU3, SU5, SU10; ERC2, ERC11a; PROC2, PROC4, PROC8b, PROC9, PROC13; PC23, PC34, PC35

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1. Short title of exposure scenario

Manufacture of substance
SU3, SU22; ERC1; PROC1, PROC2, PROC3, PROC4

2. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures
SU3, SU22; PROC8a, PROC8b, PROC9

3. Short title of exposure scenario

Use in Functional Fluids
SU3; ERC8a, ERC8d, ERC9a, ERC9b; PROC17, PROC18, PROC19

4. Short title of exposure scenario

Use as a Process chemical
SU3, SU22; ERC4; PROC1, PROC2, PROC3, PROC4

5. Short title of exposure scenario

Formulation
SU3, SU10, SU22; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5

6. Short title of exposure scenario

SU3; SU3, SU9; ERC1, ERC4, ERC6a, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

7. Short title of exposure scenario

SU3; SU3, SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

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8. Short title of exposure scenario

SU3; SU3, SU17; ERC4, ERC5, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

9. Short title of exposure scenario

SU22; SU22; ERC8a, ERC8c, ERC8d, ERC8f; PROC5, PROC9, PROC10, PROC11, PROC19

10. Short title of exposure scenario

SU22; SU22; ERC8a, ERC8b, ERC8d, ERC8e; PROC19

11. Short title of exposure scenario

SU22; SU22; ERC8a, ERC8d; PROC11, PROC13, PROC19

12. Short title of exposure scenario

SU21; SU21; ERC8a, ERC8c, ERC8d, ERC8f; PC9, PC12, PC35, PC39

13. Short title of exposure scenario

SU3; SU3, SU5, SU10; ERC2, ERC11a; PROC2, PROC4, PROC8b, PROC9, PROC13; PC23, PC34, PC35
