

Safety data sheet

Page: 1/12

BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 22.12.2022

Version: 6.0

Product: **Tamol® NN 8906**

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

1. Identification

Product identifier

Tamol® NN 8906

Chemical name: Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt

CAS Number: 9084-06-4

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

Relevant identified uses: industrial chemicals

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-57579

E-mail address: em-ehs-masterdata-lu@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 5 (oral)

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

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

Label elements

Globally Harmonized System (GHS)

Signal Word:

Warning

Hazard Statement:

H303 May be harmful if swallowed.

Precautionary Statements (Response):

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Other hazards

According to UN GHS criteria

The product is under certain conditions capable of dust explosion.

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

3. Composition/Information on Ingredients

Substances

Chemical nature

Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt
CAS Number: 9084-06-4

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

Mixtures

Not applicable

4. First-Aid Measures

Description of first aid measures

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

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.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

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.

Special hazards arising from the substance or mixture

harmful vapours, carbon oxides, sulfur oxides

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

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.

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.

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

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

Methods and material for containment and cleaning up

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

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

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

7. Handling and Storage

Precautions for safe handling

Provide exhaust ventilation.

Protection against fire and explosion:

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

Conditions for safe storage, including any incompatibilities

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

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

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

50-00-0: Formaldehyde

7757-82-6: Sodium sulphate

Exposure controls

Personal protective equipment

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 ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

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.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 22.12.2022

Version: 6.0

Product: **Tamol® NN 8906**

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	powder	
Colour:	brownish	
Odour:	product specific, faint odour	
Odour threshold:		
	not determined	
pH value:	approx. 7 (100 g/l, 20 - 25 °C)	(DIN 19268)
melting point (decomposition):	approx. 260 °C The substance / product decomposes.	(other)
Boiling point:		
	not determined	
Flash point:		
	not applicable, the product is a solid	
Evaporation rate:		
	The product is a non-volatile solid.	
Flammability:	not highly flammable	(VDI 2263, sheet 1, 1.2)
Lower explosion limit:		
	For solids not relevant for classification and labelling.	
Upper explosion limit:		
	For solids not relevant for classification and labelling.	
Ignition temperature:	> 200 °C	(DIN 51794)
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:		(OECD Guideline 105)
	300 - 400 g/l (20 °C)	

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 22.12.2022

Version: 6.0

Product: **Tamol® NN 8906**

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

Solubility (qualitative) solvent(s): polar solvents
soluble

Partitioning coefficient n-octanol/water (log Kow):
not applicable

Self ignition: The value has not be determined
because of the low risk of self-ignition
in consequence of the low melting
point.

Thermal decomposition: > 165 °C (DTA)

Viscosity, dynamic:
not applicable, the product is a solid

Viscosity, kinematic:
not applicable, the product is a solid

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Other information

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

Bulk density: approx. 500 kg/m³ (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.

10. Stability and Reactivity**Reactivity**

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

Corrosion to metals: No corrosive effect on metal.

Chemical stability

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

Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

Conditions to avoid

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

Incompatible materials

Substances to avoid:
acids, mineral acids, oxidizing agents, peroxides, water reactive substances, Friedel-Crafts catalysts,
strong bases

Hazardous decomposition products

Hazardous decomposition products:

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

11. Toxicological Information

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)

LD50 rat (dermal): > 2.000 mg/kg (other)

Irritation

Assessment of irritating effects:

Not irritating to eyes and skin.

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:

A sensitizing effect on particularly sensitive individuals cannot be excluded. Based on available data, the classification criteria are not met.

Experimental/calculated data:

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

Information on: Formaldehyde

Assessment of sensitization:

Caused skin sensitization in animal studies. Caused sensitization in humans.

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity:

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

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

Information on: FormaldehydeAssessment of carcinogenicity:

After lifelong inhalation exposure to concentrations that were severely damaging to the nasal epithelium, nasal tumors were induced in rats; in other species these findings were not found or were considerably less pronounced. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to occurrence of nasopharyngeal cancer and leukemia. No adverse health effects are anticipated if recommended personal protective equipment and industrial hygiene practices are used.

Reproductive toxicity

Assessment of reproduction toxicity:
Not classified, due to lack of data.

Developmental toxicity

Assessment of teratogenicity:
Not classified, due to lack of data.

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:
Not classified, due to lack of data.

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.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.

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

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

Aquatic invertebrates:
LC50 (48 h), daphnia
not determined

Aquatic plants:
EC50 (72 h), algae
not determined

Microorganisms/Effect on activated sludge:
EC50 (0,5 h), bacteria
not determined

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.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Not readily biodegradable (by OECD criteria).

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

Elimination information:
20 - 70 % COD reduction (OECD 303A; ISO 11733; 92/69 EEC,V, C.10) (activated sludge)
Moderately/partially eliminated from water.

> 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.

Bioaccumulative potential

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

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.

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).

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

Other adverse effects

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

Additional information

Sum parameter

Chemical oxygen demand (COD): 1.460 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 96 mg/g

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

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 release untreated into natural waters.

13. Disposal Considerations

Waste treatment methods

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

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID 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

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
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Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

Date of print 27.06.2026

	Not classified as a dangerous good under transport regulations
UN number or ID 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 or ID 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

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID 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 or ID 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

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 22.12.2022
Product: **Tamol® NN 8906**

Version: 6.0

(ID no. 30043768/SDS_GEN_00/EN)

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Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

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.

16. Other Information

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.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:
Acute Tox. Acute toxicity

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.