

# Safety data sheet

Page: 1/10

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 27.11.2012

Version: 4.0

Product: **Tamol® NN 9104**

(ID no. 30043760/SDS\_GEN\_GB/EN)

Date of print 01.10.2014

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

## Tamol® NN 9104

Chemical name: naphthalenesulfonic acid-formaldehyde-polycondensate as 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  
GERMANYContact address:BASF plc  
PO Box 4, Earl Road, Cheadle Hulme,  
Cheadle, Cheshire  
SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222

E-mail address: product-safety-north@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

---

## 2. Hazards Identification

### Label elements

| Globally Harmonized System, EU (GHS)| The product does not require a hazard warning label in accordance with GHS criteria.

According to Directive 67/548/EEC or 1999/45/EC

EEC Directives

The product does not require a hazard warning label in accordance with EC Directives.

### **Classification of the substance or mixture**

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

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

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

The product is under certain conditions capable of dust explosion.

### **Other hazards**

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

No specific dangers known, if the regulations/notes for storage and handling are considered.

---

## **3. Composition/Information on Ingredients**

### **Substances**

Chemical nature

| naphthalenesulfonic acid-formaldehyde-polycondensate as sodium salt

---

## **4. First-Aid Measures**

### **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.

On ingestion:

Rinse mouth and then drink plenty of water.

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

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

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

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

---

## **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

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.

---

## **6. Accidental Release Measures**

### **Personal precautions, protective equipment and emergency procedures**

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

### **Environmental precautions**

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

### **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.

### Reference to other sections

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

---

## 7. Handling and Storage

### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local 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.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), glass, paper, board, High density polyethylene (HDPE)

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

### 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.

---

## 8. Exposure Controls/Personal Protection

### Control parameters

#### Components with occupational exposure limits

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom).

50-00-0: formaldehyde...%

0.5 mg/m<sup>3</sup> ; 0.4 ppm (Recommendation of BASF)

TWA value 2.5 mg/m<sup>3</sup> ; 2 ppm (WEL/EH 40 (UK))

STEL value 2.5 mg/m<sup>3</sup> ; 2 ppm (WEL/EH 40 (UK))

### 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 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)

**General safety and hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

---

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	powder	
Colour:	light brown	
Odour:	faint specific odour	
pH value:	approx. 10 (100 g/l, 20 - 25 °C)	(DIN 19268)
Melting temperature:	> 260 °C The substance / product decomposes.	
Flash point:	> 100 °C	(DIN 51758)
Flammability:	not self-igniting	
Ignition temperature:	> 200 °C	(DIN 51794)
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	
Thermal decomposition:	> 260 °C	
Explosion hazard:	not explosive	

### 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 <sup>3</sup>	(DIN ISO 697)

---

## 10. Stability and Reactivity

### Reactivity

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

Dust explosion hazard.

### Conditions to avoid

Avoid humidity. Avoid dust formation.

### Incompatible materials

Substances to avoid:

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

### Hazardous decomposition products

Hazardous decomposition products:

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

---

## 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

#### Irritation

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

Experimental/calculated data:

BASF Safety data sheet according to Regulation (EC) No. 1907/2006  
Date / Revised: 27.11.2012  
Product: **Tamol® NN 9104**

Version: 4.0

(ID no. 30043760/SDS\_GEN\_GB/EN)

Date of print 01.10.2014

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

#### Experiences in humans

Experimental/calculated data:

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

#### 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**

Toxicity to fish:

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

Microorganisms/Effect on activated sludge:

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

### **Persistence and degradability**

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

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.

### **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 (and other compartments if available)**

Assessment transport between environmental compartments:

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

Adsorption to solid soil phase is possible.

### **Results of PBT and vPvB assessment**

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

### Additional information

Sum parameter

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

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

Other ecotoxicological advice:

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

---

## 13. Disposal Considerations

### Waste treatment methods

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

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:	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	None known



user

**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

**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

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated

---

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 27.11.2012

Version: 4.0

Product: **Tamol® NN 9104**

(ID no. 30043760/SDS\_GEN\_GB/EN)

Date of print 01.10.2014

Pollution category: Not evaluated

Ship Type: Not evaluated

---

## 15. Regulatory Information

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

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).

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

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: [product-safety-north@basf.com](mailto:product-safety-north@basf.com)

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. 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.