

# Naphthalene sulfonic Acid with Formaldehyde

Part No. RXSOL-67-6704-026 — Generated 29 Sep 2026

## 1. Product and Company Identification

Product Name Naphthalene sulfonic Acid with Formaldehyde

Part Number RXSOL-67-6704-026

Company Details:

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## 2. Composition / information on ingredients

| Chemical Name                                                    | Cas No    | Content (W/W) |
|------------------------------------------------------------------|-----------|---------------|
| Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt | 9084-06-4 | 93.5 %        |
| Sodium sulfate                                                   | 7757-82-6 | 4.5 %         |
| Formaldehyde                                                     | 50-00-0   | 0.1 %         |

## 3. Hazards Identification

|                                               |                                                                                                                                                                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency overview                            | CAUTION: NO PARTICULAR HAZARDS KNOWN.<br>Wash thoroughly after handling.<br>Do not breathe dust.                                                                                                                       |
| Primary routes of exposure                    | Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases. |
| Medical conditions aggravated by overexposure | Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.<br>See MSDS section 11 - Toxicological information.          |

## 4. First Aid Measures

|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| General advice    | Remove contaminated clothing.                                                                             |
| If inhaled        | If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.        |
| If on skin        | Wash thoroughly with soap and water.                                                                      |
| If in eyes        | Wash affected eyes for at least 15 minutes under running water with eyelids held open.                    |
| If swallowed      | Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required. |
| Note to physician | Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.    |

## 5. Fire-fighting Measures

|                                                   |                                                                                                                           |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Flash point                                       | > 100 °C (DIN 51758)                                                                                                      |
| Autoignition                                      | > 200 °C (DIN 51794)                                                                                                      |
| Flammability                                      | Not self-igniting                                                                                                         |
| Suitable extinguishing media                      | water spray, dry extinguishing media, foam                                                                                |
| Unsuitable extinguishing media for safety reasons | carbon dioxide                                                                                                            |
| Additional information                            | Avoid whirling up the material/product because of the danger of dust explosion.                                           |
| Hazards during fire-fighting                      | Harmful vapours<br>Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. |
| Protective equipment for fire-fighting            | Wear a self-contained breathing apparatus.                                                                                |
| Further information                               | Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.                         |
| NFPA Hazard codes                                 | Health : 1 Fire: 1 Reactivity: 0 Special:                                                                                 |

## 6. Accidental Release Measures

|                           |                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Avoid dust formation. Use personal protective clothing.                                                                                     |
| Environmental precautions | Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.<br><br>Avoid raising dust.          |
| Cleanup                   | For small amounts: Pick up with suitable appliance and dispose of.<br>For large amounts: Contain with dust binding material and dispose of. |

## 7. Handling and Storage

### Handling

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| General advice                        | Closed containers should only be opened in well-ventilated areas.            |
| Protection against fire and explosion | Avoid dust formation. Take precautionary measures against static discharges. |

### Storage

|                |                                                               |
|----------------|---------------------------------------------------------------|
| General advice | Keep container tightly closed and dry; store in a cool place. |
|----------------|---------------------------------------------------------------|

## 8. Exposure controls and personal protection

|                                              |                                                                                           |       |                                                          |
|----------------------------------------------|-------------------------------------------------------------------------------------------|-------|----------------------------------------------------------|
| Components with workplace control parameters | Formaldehyde<br>OSHA_ACT                                                                  | OSHA  | TWA value 0.75 ppm ; STEL value 2 ppm ;<br><br>0.5 ppm ; |
|                                              |                                                                                           | ACGIH | CLV 0.3 ppm ;                                            |
| Advice on system design                      | Provide local exhaust ventilation to control dust.                                        |       |                                                          |
| Respiratory protection                       | Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.             |       |                                                          |
| Hand protection                              | Chemical resistant protective gloves                                                      |       |                                                          |
| Eye protection                               | Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures. |       |                                                          |

General safety and hygiene measures

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately.

## 9. Physical and chemical properties

|                          |                                            |
|--------------------------|--------------------------------------------|
| Form                     | Powder                                     |
| Odour                    | Faint specific odour                       |
| Colour                   | Light Brown                                |
| pH value                 | 9.5 - 10.5 ( 100 g/l, 20 °C)               |
| Melting temperature      | > 260 °C                                   |
| Bulk density             | 680 kg/m <sup>3</sup> ( 20 °C) (DIN 53468) |
| Solubility in water      | Approx. 400 g/l ( 20 °C)                   |
| Solubility (qualitative) | Soluble<br>Solvent(s): polar solvents,     |

## 10. Stability and reactivity

|                        |                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Conditions to avoid    | Avoid humidity.                                                                                                            |
| Substances to avoid    | No data available                                                                                                          |
| Hazardous reactions    | The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer. |
| Decomposition products | Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.       |
| Thermal decomposition  | Approx. 260 °C                                                                                                             |
| Corrosion to metals    | No corrosive effect on metal.                                                                                              |

## 11. Toxicological information

### Acute toxicity

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| Oral            | LD50/rat: > 2,000 mg/kg                                        |
| Skin irritation | Rabbit: non-irritant (OECD Guideline 404)                      |
| Eye irritation  | Rabbit: non-irritant (OECD Guideline 405)                      |
| Sensitization   | Buehler test/guinea pig: Non-sensitizing. (OECD Guideline 406) |

### Chronic toxicity

|                       |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Experiences in humans | May lead to a skin reaction in people already sensitised with formaldehyde                                                            |
| Other 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

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biodegradation</b>                               | <b>Test method:</b> OECD 303A; ISO 11733; 92/69 EEC,V, C.10, activated sludge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                     | <b>Method of analysis:</b> COD reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                     | <b>Degree of elimination:</b> 20 - 70 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                     | <b>Test method:</b> ISO 9439, Annex D (Kombitest), activated sludge, industrial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                     | <b>Method of analysis:</b> C-14 labelling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                     | <b>Degree of elimination:</b> > 90 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                     | <b>Evaluation:</b> Moderately/partially eliminated from water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                     | In tests with reduced concentrations, elimination of the substance from water is good.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                     | At environmentally relevant purification plant concentrations of 1mg/l the elimination of the product from water is good.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Chemical oxygen demand (COD)                        | Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Toxicity to daphnia and other aquatic invertebrates | Static test EC50 - Daphnia magna (Water flea) - 42,81 mg/l - 48 h (OECD Test Guideline 202)<br>Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Toxicity                                            | Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 2,60 mg/l - 96 h (OECD Test Guideline 203) Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - 4,36 mg/l - 73 h (OECD Test Guideline 201) Toxicity to bacteria Remarks: (ECHA) (m-xylene) Toxicity to fish(Chronic toxicity) flow-through test NOEC - Danio rerio (zebra fish) - 0,71 mg/l - 35 d (OECD Test Guideline 210) Toxicity to daphnia and other aquatic invertebrates(Chronic NOEC - Daphnia magna (Water flea) - 1,57 mg/l - 21 d (OECD Test Guideline 211) Sigma-Aldrich- 296325 Page 10 of 13 The life science business of Merck operates as MilliporeSigma in the US and Canada toxicity) EC50 - Daphnia magna (Water flea) - 2,9 mg/l - 21 d (OECD Test Guideline 211) |
| Toxicity to bacteria                                | EC10 - Bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000 mg/l Remarks: (Lit.) (maximum permissible toxic concentration)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Toxicity to algae                                   | Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 74,35 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Products Biodegradation                             | The methods for determining the biological degradability are not applicable to inorganic substances.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mobility in soil                                    | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Results of PBT and vPvB assessment                  | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Endocrine disrupting properties                     | Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Other adverse effects                               | No data available .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 13. Disposal considerations

|                 |        |                   |
|-----------------|--------|-------------------|
| Waste treatment | Method | No data available |
|-----------------|--------|-------------------|

## 14. Transport information

|                              |                                                                         |              |              |
|------------------------------|-------------------------------------------------------------------------|--------------|--------------|
| UN number                    | ADR/RID:1307                                                            | IMDG:1307    | IATA: 1307   |
| UN proper shipping name      | ADR/RID:XYLENES                                                         | IMDG:XYLENES | IATA:XYLENES |
| Transport hazard class(es)   | ADR/RID: 3                                                              | IMDG: 3      | IATA:3       |
| Packaging group              | ADR/RID: III                                                            | IMDG: III    | IATA : III   |
| Environmental hazards        | ADR/RID: No                                                             | IMDG: No     | IATA: No     |
| Special precautions for user | Tunnel restriction code : (D/E) Further information : No data available |              |              |

## 15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Observe work restrictions regarding maternity protection in accordance with Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## 16. Other information

Other  
Information

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