



Safety Data Sheet according to (EC) No. 1907/2006 (REACH), amended with 2015/830/EU

Version: 1
Date of compilation: 2019-10-24
Identification of the substance: MAPS
Article number: 13199.1.2.1.001

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

1.1. Product identifier

3-[4,5-bis(dimethylamino)-1-naphthyl]furan-2,5-dione

CAS-No.:

EG-No.:

INDEX-No.:

REACH-No.: A registration number for this substance does not exist because the substance or its use is excluded from registration, the annual tonnage does not require registration or registration is foreseen for a later date.

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

Identified uses: Sample preparation for mass spectrometry

Uses advised against: Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Supplier

MSI Diagnostics GmbH
Braunsberger Straße 8
33605 Bielefeld
Germany

Responsible person for information

Phone: +49 15734415515 (This number is only busy during office hours.)

Information Telefax: -

e-mail (competent person): info@msi-diagnostics.com

Website: www.msi-diagnostics.com

1.4. Emergency telephone number

Emergency information service **Poison Centre North (Gif tinformat ionszentrum Nord):**
+49 (0)551-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008: Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335

2.2. Label elements

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

Pictograms:

GHS07



Signal word:

Caution

Hazard statements:

302 Harmful if swallowed.
319 Causes serious eye irritation.
335 May cause respiratory irritation.

Precautionary statements:

Precautionary statements - prevention:

231 Handle under inert gas.
235 Keep cool.
260 Do not breathe dust/fumes/gas/mist/vapours/spray.

Precautionary statements - response:

305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

There is no additional information.

SECTION 3: Composition/ information on ingredients

3.1. Substances

Name of substance: 3-[4,5-bis(dimethylamino)-1-naphthyl]furan-2,5-dione

Molar mass: 310,36 g/mol

Molecular formula: C₁₈H₁₈N₂O₃

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes: In case of accident or if you feel unwell, seek medical advice immediately (if possible, show operating instructions or safety data sheet).

Following inhalation: Provide fresh air. In case of irregular breathing or respiratory arrest, initiate artificial respiration.

Following skin contact:	After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical advice.
Following eye contact:	In case of contact with eyes, rinse immediately with plenty of running water for 10 to 15 minutes with eyelids open. Then see an ophthalmologist.
Following ingestion:	Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth thoroughly with water. Consult a doctor immediately.
Self-protection of the first aider:	-

4.2. Most important acute or delayed symptoms and effects

Symptoms: The main known symptoms and effects are described on the label (see section 2.2) and/or in section 11.

Hazards: -

4.3 Information on immediate medical help or special treatment

Information for the doctor: No data available.
Special treatment: Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂). D-powder. Sand. Nitrogen. Foam. Dry extinguishing agent.

Unsuitable extinguishing media: water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
In case of fire may be liberated: nitrogen oxides (NO_x), carbon dioxide (CO₂).

5.3. Advice for firefighters

General Information

Adjust extinguishing measures to the environment. To protect persons and to cool containers, use a water spray jet in the danger area. Wear self-contained breathing apparatus.

Additional information: No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.
Bring persons to safety.

6.2. Environmental precautions

Keep away from drains and ground water.

6.3. Methods and material for containment and cleaning up

Collect spilled material with a spark-safe vacuum cleaner or sweep wet and place in container for disposal in accordance with local regulations (see section 13).

6.4. Reference to other sections

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Instructions for safe handling

Avoid contact with eyes and skin.

Technical measures

Provide adequate ventilation and point extraction at critical points.

Information on fire and explosion protection

Common preventive fire protection measures

Further information

Information on protective measures can be found in Section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Ensure adequate ventilation of the storage room.

Packaging materials

Store only in the original container in a dry, cool, well-ventilated place.

Requirements for storage rooms and containers

Keep container tightly closed. Protect from sunlight.

Information on storage in one common storage facility

No data available.

Storage class: 10-13

Further information on storage conditions

Protect against: Heat.

Store at 2-8 °C under inert gas such as nitrogen (N₂).

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are foreseen.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National limit values

Does not contain substances in quantities above the concentration limits for which an occupational exposure limit value has been established.

8.2. Exposure controls

Occupational exposure controls and controls

Technical measures and the use of appropriate working procedures shall take precedence over the use of personal protective equipment.

Protection and hygiene measures

Do not eat, drink, smoke or snuff at the workplace. Wash hands before breaks and at the end of work.

Individual protection measures (personal protective equipment)

Only wear suitable, comfortable and clean protective clothing.

Respiratory protection

If air-purifying respiratory protection is required after the risk assessment, a full-face mask with multi-purpose combination filter (US) or with filter type ABEK (EN 14387) must be used in addition to the technical measures. If the breathing apparatus is the only protective measure, use self-contained breathing apparatus with full face mask. Respiratory protective devices and components must be tested and approved in accordance with appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Work with suitable gloves. It is recommended to check the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer. Check for leakage/impermeability before use. Use a suitable removal method (without touching the outer surface of the glove) to avoid skin contact with this product. Disposal of contaminated gloves after use in accordance with legal requirements and good laboratory practice. Wash and dry hands.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the resulting EN 374 standard.

Full contact

Material: nitrile rubber
Minimum layer thickness: 0,12 mm
Material tested: TouchNTuff® (Carl Roth, K968.1)

Splash contact

Material: nitrile rubber
Minimum layer thickness: 0,12 mm
Material tested: Nitrile disposable gloves Pro-Fit (Asta, 107404)

Eye/face protection

Frame goggles with side protection acc. to EN 166

For eye protection, only use equipment that has been tested and approved according to official standards such as NIOSH (US) or EN 166 (EU).

Body protection

Overall. Lab coat.

Environmental exposure controls

Keep away from drains and ground water.

Limitation and monitoring of consumer exposure

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Exposure scenario

-

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a. Appearance:	Powder, violet
b. Physical state:	solid
c. Colour:	violet
d. Odor:	odorless
e. Odour threshold:	No data available
f. Density:	No data available
g. Bulk density:	No data available
h. pH (value):	9
i. Melting point/freezing point:	No data available
j. Initial boiling point and boiling range:	No data available
k. Flash point:	No data available
l. Flammability (solid, gas):	No data available
m. Explosive limits:	No data available
n. Lower explosion limit:	No data available
o. Upper explosion limit:	No data available
p. Auto-ignition temperature:	No data available
q. Decomposition temperature:	No data available
r. Oxidizing properties:	No data available
s. Vapour pressure:	No data available
t. Steam density:	No data available
u. Evaporation rate:	No data available
v. Water solubility:	No data available
w. Fat solubility:	No data available
x. Soluble in:	No data available
y. Distribution coefficient n-octanol/water:	No data available
z. Viscosity:	No data available
aa. Solvent separation test:	No data available
bb. Solvent content:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The substance is chemically stable under the recommended storage, use and temperature conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

No data available

Additional information

In case of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No data available

Specific symptoms in animal experiments

No data available

Irritation and corrosivity

Irritant effect on the skin:	No data available
Irritant effect on the eye:	No data available
Irritant effect of the respiratory tract:	No data available
Additional information:	No data available

Sensitization

No data available

Repeated uptake toxicity (subacute, subchronic, chronic)

No data available

CMR effects (carcinogenic, mutagenic and toxic to reproduction)

Carcinogenicity:

IARC: No component of this product present in a concentration equal to or greater than 0.1% is identified by the IARC as a probable, possible or proven human carcinogen.

Germ cell mutagenicity:

No information available.

Reproductive toxicity:

No information available.

General remarks

According to our knowledge, the chemical, physical and toxicological properties have not been comprehensively investigated.

Experiences from practice/with people

There is no information available.

Other observations

There is no information available.

Other information

RTECS: No data available

SECTION 12: Ecological information

12.1. Toxicity

There is no information available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulation potential

Data are not available.

12.4. Mobility in soil

Data are not available.

12.5. Results of PBT and vPvB assessment

A PBT/ vPvB assessment is not available as a chemical safety assessment is not required/ has not been performed.

12.6. Other adverse effects

Data are not available.

Further ecological information

Keep away from drains and ground water.

Other information

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Proper disposal/product

Residual quantities and non-recyclable solutions must be sent to a recognized waste disposal company. This material may only be disposed of by an approved disposal company.

Proper disposal/packaging

Contaminated packaging shall be treated in the same way as the substance.

Proposal list for waste codes / waste designations according to EAKV

Disposal in accordance with official regulations.

Waste code product: - : -

Waste code packaging: -

Remarks: -

SECTION 14: Transport information

14.1. UN number

UN No.: -

14.2. UN proper shipping name

Official designation for carriage

ADR/RID: not dangerous goods

IMDG: not dangerous goods; IATA: not dangerous goods

14.3. Transport hazard classes

Hazard label: -

Classification Code: -

14.4. Packaging group

Packing Group: -

14.5. Environmental hazards

Environmental hazards:

14.6. Special precautions for the user

Land transport (ADR/RID)

Remarks: No dangerous goods within the meaning of these transport regulations.

Transport category: -

Tunnel restriction code: -

Special regulations: -

Limited quantity (LQ): -

Maritime transport (IMDG)

Special Provisions:

Remark: Not a hazardous material with respect to these transportation regulations.

EmS-No: -

MFAG: -

Marine pollutant: no

Special provisions:

Limited quantity (LQ): -

Air transport (ICAO-TI / IATA-DGR)

Remark: Not a hazardous material with respect to these transportation regulations.

Limited quantity (LQ): -

SECTION 15: Regulatory information

Special labelling of certain preparations

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), amended with regulation 2015/830/EU

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

Legislation applicable to the substance or mixture

Relevant provisions of the European Union (EU)

Information on Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC Directive)

highly hazardous to water (WGK 3) - self-assessment

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer.

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Regulation (EC) No 648/2004 on detergents

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National regulations

The national legal regulations must also be observed!

Water hazard class (WGK)

3 highly hazardous to water (WGK 3)

Technical Instructions Air (TA-Luft)

-

Other regulations, restrictions and prohibition ordinances

-

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for this preparation:

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

List of relevant phrases (code and full text as stated in chapter 2)

Hazard statements

- | | |
|-----|-----------------------------------|
| 302 | Harmful if swallowed. |
| 319 | Causes serious eye irritation. |
| 335 | May cause respiratory irritation. |

Training notes

-

Recommended restriction(s) of the application

-

Additional Information

The present information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Indication of changes (revised safety data sheet)

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Key literature references and sources for data

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Abbreviations and acronyms

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