# Chemical Safety Data Sheet MSDS / SDS

# 1,3-DIMETHYLNAPHTHALENE

Revision Date:2025-07-19 Revision Number:1

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

#### **Product identifier**

| : 1,3-DIMETHYLNAPHTHALENE  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| : CB4665939  |  |  |  |  |  |  |
| : 575-41-7   |  |  |  |  |  |  |
| : 209-384-6  |  |  |  |  |  |  |
| : 1,3-dimethylnaphthalene,Naphthalene, 1,3-dimethyl-                                 |  |  |  |  |  |  |
| Relevant identified uses of the substance or mixture and uses advised against        |  |  |  |  |  |  |
| : For R&D use only. Not for medicinal, household or other use.                       |  |  |  |  |  |  |
| : none   |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| : Chemicalbook   |  |  |  |  |  |  |
| : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing |  |  |  |  |  |  |
| : 010-86108875   |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

# SECTION 2: Hazards identification

#### GHS Label elements, including precautionary statements

Symbol(GHS)

₩2

Signal word

Warning

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage. Hazardous to the aquatic environment

P501 Dispose of contents/container to.....

#### Hazard statements

H410 Very toxic to aquatic life with long lasting effects

# SECTION 3: Composition/information on ingredients

#### Substance

| Product name | : 1,3-DIMETHYLNAPHTHALENE                            |
|--------------|--|
| Synonyms     | : 1,3-dimethylnaphthalene,Naphthalene, 1,3-dimethyl- |
| CAS          | : 575-41-7   |
| EC number    | : 209-384-6  |
| MF           | : C12H12   |
| MW           | : 156.22   |
|              |  |

## SECTION 4: First aid measures

#### Description of first aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Carbon oxides

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

No data available

#### **NFPA 704**

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|  | HEALTH        | 0 | Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials   |  |  |  |  |
|--|---------------|---|--|--|--|--|--|
|  | FIRE          | 1 | Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia) |  |  |  |  |
|  | REACT         | 0 | Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)   |  |  |  |  |
|  | SPEC.<br>HAZ. |   |  |  |  |  |  |

### SECTION 6: Accidental release measures

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

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

#### Precautions for safe handling

For precautions see section 2.2.

#### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

#### control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

#### **Exposure controls**

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. **Body Protection** 

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** 

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use

respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# SECTION 9: Physical and chemical properties

#### Information on basic physicochemical properties

| Appearance                              | light yellow clear, liquid |
|---|----------------------------|
| Odour                                   | No data available          |
| Odour Threshold                         | No data available          |
| рН                                      | No data available          |
| Melting point/freezing point            | -63 °C(lit.)               |
| Initial boiling point and boiling range | 263 °C - lit.              |
| Flash point                             | 109 °C - closed cup        |
| Evaporation rate                        | No data available          |
| Flammability (solid, gas)               | No data available          |
| Upper/lower flammability or explosive   | No data available          |
| limits                                  |                            |
| Vapour pressure                         | No data available          |

| Vapour density                         | No data available   |
|--|---------------------|
| Relative density                       | 0,982 g/mL at 25 °C |
| Water solubility                       | No data available   |
| Partition coefficient: n-octanol/water | log Pow: 4,26       |
| Autoignition temperature               | No data available   |
| Decomposition temperature              | No data available   |
| Viscosity                              | No data available   |
| Explosive properties                   | No data available   |
| Oxidizing properties                   | No data available   |
|  |                     |

#### Other safety information

No data available

# SECTION 10: Stability and reactivity

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

No data available

#### Conditions to avoid

No data available

#### Incompatible materials

Oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

In the event of fire: see section 5

# SECTION 11: Toxicological information

#### Information on toxicological effects

Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available

#### Respiratory or skin sensitization

No data available Germ cell mutagenicity Ames test Result: negative Carcinogenicity IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: QJ4420000

## **SECTION 12: Ecological information**

#### Toxicity

#### Toxicity to fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 1,7 mg/l - 96 h

#### Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia pulex (Water flea) - 0,767 mg/l - 48 h

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

No data available

#### Mobility in soil

No data available

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

Very toxic to aquatic life with long lasting effects. No data available

### **SECTION 13: Disposal considerations**

#### Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

#### **UN number**

ADR/RID: 3082 IMDG: 3082 IATA: 3082

#### UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3-

Dimethylnaphthalene)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3-

Dimethylnaphthalene)

IATA: Environmentally hazardous substance, liquid, n.o.s. (1,3-Dimethylnaphthalene)

#### Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

#### **Packaging group**

ADR/RID: III IMDG: III IATA: III

#### **Environmental hazards**

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

#### Special precautions for user

#### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

# **SECTION 15: Regulatory information**

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

#### **Regulations on the Safety Management of Hazardous Chemicals**

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

#### Measures for Environmental Management of New Chemical Substances

United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/ Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/ Philippines Inventory of Chemicals and Chemical Substances (PICCS):Listed. website: https://emb.gov.ph/ New Zealand Inventory of Chemicals (NZIoC):Listed. website: https://www.epa.govt.nz/ European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/ EC Inventory:Listed.

# **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service

EC50: Effective Concentration 50%

IATA: International Air Transportation Association

IMDG: International Maritime Dangerous Goods

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit

TWA: Time Weighted Average

#### References

[1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

[2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

[3] ECHA - European Chemicals Agency, website: https://echa.europa.eu/

[4] eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

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