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# **SAFETY DATA SHEET**

Version 6.18 Revision Date 05/20/2025 Print Date 05/21/2025

# SECTION 1. IDENTIFICATION

# **1.1 Product identifiers**

Product name : Naphthalene Product Number : 147141

|           |   | 14/141       |
|-----------|---|--------------|
| Brand     | : | Aldrich      |
| Index-No. | : | 601-052-00-2 |
| CAS-No.   | : | 91-20-3      |
|           |   |              |

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

# **1.3** Details of the supplier of the safety data sheet

| Company   | : Sigma-Aldrich Inc.<br>3050 SPRUCE ST<br>ST. LOUIS MO 63103<br>UNITED STATES |
|-----------|---|
| Telephone | : +1 314 771-5765   |

|     | - | . – . |     |     |       |  |
|-----|---|-------|-----|-----|-------|--|
| Fax | : | +1    | 800 | 325 | -5052 |  |

# **1.4 Emergency telephone number**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# SECTION 2. HAZARDS IDENTIFICATION

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Flammable solids                    | : Category 2 |
|-------------------------------------|--------------|
| Carcinogenicity<br>Aldrich - 147141 | : Category 2 |

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| Short-term (acute)<br>aquatic hazard    | : | Category 1  |
|---|---|---|
| Long-term (chronic)<br>aquatic hazard   | : | Category 1  |
| <b>Other hazards</b><br>None known.     |   |   |
| GHS label elements<br>Hazard pictograms | : |   |
| Signal Word                             | : | Warning   |
| Hazard Statements                       | : | H228 Flammable solid.<br>H351 Suspected of causing cancer.<br>H410 Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements                | : | <ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P240 Ground and bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting equipment.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves, protective clothing, eye protection and face protection.</li> </ul> |
|   |   | Response:<br>P308 + P313 IF exposed or concerned: Get medical<br>advice/ attention.<br>P370 + P378 In case of fire: Use dry sand, dry chemical<br>or alcohol-resistant foam to extinguish.<br>P391 Collect spillage.  |
|   |   | <b>Storage:</b><br>P405 Store locked up.  |
|   |   | Disposal:   |

P501 Dispose of contents/ container to an approved waste disposal plant.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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# Components

| Chemical name | CAS<br>No./Unique ID | Concentration (% w/w) | Trade<br>secret |
|---------------|----------------------|-----------------------|-----------------|
| Naphthalene   | 91-20-3*             | >= 80 - <= 100        | TSC             |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

# **SECTION 4. FIRST AID MEASURES**

| General advice<br>If inhaled                                      |   | Show this safety data sheet to the doctor in attendance.<br>After inhalation: fresh air. Call in physician.                  |
|---|---|--|
|   | • |  |
| In case of skin contact   | : | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician. |
| In case of eye contact  | : | After eye contact: rinse out with plenty of water.<br>Call in ophthalmologist.<br>Remove contact lenses.                     |
| If swallowed  | : | After swallowing: immediately make victim drink<br>water (two glasses at most).<br>Consult a physician.                      |
| Most important<br>symptoms and effects,<br>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          |
| Protection of first-aiders  | : | For personal protection see section 8.   |
| Notes to physician  | : | No data available  |

# **SECTION 5. FIREFIGHTING MEASURES**

| Suitable extinguishing<br>media   | : | Water<br>Foam<br>Carbon dioxide (CO2)<br>Dry powder                          |
|-----------------------------------|---|--|
| Unsuitable extinguishing<br>media | : | For this substance/mixture no limitations of extinguishing agents are given. |

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| Specific hazards during fire fighting                 | : | Combustible.  |
|---|---|---|
|   |   | Vapours are heavier than air and may spread along floors.   |
|   |   | Forms explosive mixtures with air on intense heating.   |
|   |   | Development of hazardous combustion gases or vapours possible in the event of fire.   |
| Hazardous combustion products                         | : | Carbon oxides   |
| Specific extinguishing methods                        | : | No data available   |
| Further information                                   | : | Remove container from danger zone and cool with<br>water.<br>Prevent fire extinguishing water from contaminating<br>surface water or the ground water system. |
| Special protective<br>equipment for fire-<br>fighters | : | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |

# SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions,<br>protective equipment and<br>emergency procedures |   | Advice for non-emergency personnel:<br>Avoid inhalation of dusts.<br>Avoid substance contact.<br>Ensure adequate ventilation.<br>Keep away from heat and sources of ignition.<br>Evacuate the danger area, observe emergency<br>procedures, consult an expert.<br>Advice for emergency responders:<br>For personal protection see section 8. |
|---|---|--|
| Environmental precautions   | : | Do not let product enter drains.<br>Risk of explosion.   |
| Methods and materials<br>for containment and<br>cleaning up               | : | Cover drains. Collect, bind, and pump off spills.<br>Observe possible material restrictions (see sections 7<br>and 10).  |
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# **SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

| Advice on protection against fire and explosion | : | Keep away from open flames, hot surfaces and sources of ignition.<br>Take precautionary measures against static discharge. |
|---|---|--|
| Advice on safe handling                         | : | Work under hood. Do not inhale substance/mixture.  |
| Further information on storage conditions       | : | Tightly closed.<br>Keep away from heat and sources of ignition.  |
| Storage class                                   | : | 4.1B, Flammable solid hazardous materials  |
| Recommended storage temperature                 | : | Recommended storage temperature see product label.   |
| Packaging material                              | : | Suitable material: Amber Glass Bottle/Jar, Foil Bag inside Fiber Drum  |

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components  | CAS-No. | Value type<br>(Form of<br>exposure) | Control<br>parameters /<br>Permissible<br>concentration | Basis     |
|-------------|---------|-------------------------------------|---|-----------|
| Naphthalene | 91-20-3 | TWA                                 | 10 ppm  | ACGIH     |
|             |         | TWA                                 | 10 ppm<br>50 mg/m3                                      | NIOSH REL |
|             |         | ST                                  | 15 ppm<br>75 mg/m3                                      | NIOSH REL |
|             |         | TWA                                 | 10 ppm<br>50 mg/m3                                      | OSHA Z-1  |

**Engineering measures** : No data available

#### **Personal protective equipment**

Respiratory protection : required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

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Recommended Filter : Filter A-(P3) type:

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

| Hand protection<br>Material<br>Break through time<br>Glove thickness<br>Protective index<br>Manufacturer | :: | Nitrile rubber<br>480 min<br>0.11 mm<br>Full contact<br>KCL 741 Dermatril® L  |
|--|----|---|
| Material<br>Break through time<br>Glove thickness<br>Protective index<br>Manufacturer                    | :: | Nitrile rubber<br>480 min<br>0.11 mm<br>Splash contact<br>KCL 741 Dermatril® L  |
| Remarks  | :  | This recommendation applies only to the product<br>stated in the safety data sheet, supplied by us and<br>for the designated use. When dissolving in or mixing<br>with other substances and under conditions deviating<br>from those stated in EN 16523-1 please contact the<br>supplier of CE-approved gloves (e.g. KCL GmbH, D-<br>36124 Eichenzell, Internet: www.kcl.de). |
| Eye protection   | :  | Use equipment for eye protection tested and<br>approved under appropriate government standards<br>such as NIOSH (US) or EN 166(EU).<br>Safety glasses   |
| Skin and body protection   | :  | Flame retardant antistatic protective clothing.   |
| Hygiene measures   | :  | Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.   |

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: flakes, granules

Color

: white

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| (      | Odor  | : | aromatic   |
|--------|---|---|--|
|        | Odor Threshold<br>pH                                |   | No data available<br>No data available   |
| I      | Melting point/ range                                | : | 176 - 180 °F / 80 - 82 °C<br>Method: lit.  |
| I      | Boiling point/boiling range                         | : | 424 °F / 218 °C<br>Method: lit.  |
| I      | Flash point   | : | 173.3 °F / 78.5 °C<br>(990 hPa)<br>Method: ISO 2719, closed cup  |
| I      | Evaporation rate                                    | : | No data available  |
| I      | Flammability (solid, gas)                           | : | The substance or mixture is a flammable solid with<br>the category 2.<br>Method: Flammability (solids) |
| I      | Burning rate  | : | No data available  |
| 9      | Self-ignition                                       | : | 979 - 1089 °F / 526 - 587 °C<br>1,013 hPa<br>Method: DIN 51794   |
|        | Upper explosion limit /<br>Upper flammability limit | : | Upper explosion limit<br>5.9 %(V)  |
|        | Lower explosion limit /<br>Lower flammability limit | : | Lower explosion limit<br>0.9 %(V)  |
| Ň      | Vapor pressure                                      | : | 0.072 hPa (68 °F / 20 °C)<br>Method: OECD Test Guideline 104   |
| I      | Relative vapour density                             | : | No data available  |
| I      | Relative density                                    | : | No data available  |
| I      | Density   | : | 1.08 g/cm3 (76.5 °F / 24.7 °C)<br>Method: OECD Test Guideline 109                                      |
| 9      | Solubility(ies)<br>Water solubility                 | : | 0.0308 g/l slightly soluble (77 °F / 25 °C)<br>pH: 7 - 7.5<br>Method: OECD Test Guideline 105          |
|        | Partition coefficient: n-<br>octanol/water          | : | log Pow: 3.4 (77 °F / 25 °C)<br>pH: 7 - 7.5<br>Method: OECD Test Guideline 107                         |
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Bioaccumulation is not expected.

| Autoignition temperature                  | : | 979 °F / 526 °C                |
|---|---|--------------------------------|
| Decomposition<br>temperature              | : | No data available              |
| Viscosity, dynamic                        | : | No data available              |
| Viscosity, kinematic                      | : | No data available              |
| Flow time                                 | : | No data available              |
| Explosive properties                      | : | Not classified as explosive.   |
| Oxidizing properties                      | : | none                           |
| Surface tension                           | : | 31.8 mN/m, 212.0 °F / 100.0 °C |
| Molecular weight                          | : | 128.17 g/mol                   |
| Particle characteristics<br>Particle size | : | No data available              |

# SECTION 10. STABILITY AND REACTIVITY

| Reactivity                         | : | Forms explosive mixtures with air on intense heating.   |
|------------------------------------|---|---|
|                                    |   | A range from approx. 15 Kelvin below the flash point is to be rated as critical.  |
|                                    |   | The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. |
| Chemical stability                 | : | The product is chemically stable under standard ambient conditions (room temperature) .   |
| Possibility of hazardous reactions | : | Violent reactions possible with:<br>Oxidizing agents<br>chromium(VI) oxide<br>benzoyl chloride<br>aluminium chloride<br>Risk of explosion with:<br>nitrogen oxides                        |
| Conditions to avoid                | : | Heat, flames and sparks.  |
|                                    |   | Strong heating.   |
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Incompatible materials : No data available

Hazardous decomposition : In the event of fire: see section 5 products

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### **11.1** Information on toxicological effects

#### Acute toxicity

Oral: No data available LC50 Inhalation - Rat - male and female - 4 h - > 0.4 mg/l - vapour

(OECD Test Guideline 403) LD50 Dermal - Rabbit - 20,000 mg/kg Remarks: (RTECS)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 24 h Remarks: (ECHA)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation - 24 h Remarks: (ECHA)

#### **Respiratory or skin sensitization**

Maximisation Test - Guinea pig Result: negative (OECD Test Guideline 406)

#### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: Metabolic activation Method: OECD Test Guideline 473 Result: positive Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Application Route: Oral Method: OECD Test Guideline 486 Result: negative

Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Aldrich - 147141

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Application Route: Intraperitoneal Method: US-EPA Result: negative Remarks: (ECHA)

#### Carcinogenicity

Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. (Naphthalene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Naphthalene)

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. (Naphthalene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

# **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

#### **11.2 Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - 91 Days - No observed adverse effect level - 200 mg/kg - Lowest observed adverse effect level - 400 mg/kg

Repeated dose toxicity - Mouse - male and female - Oral - 90 Days - No observed adverse effect level - 100 mg/kg

Repeated dose toxicity - Rat - male and female - Dermal - 90 Days - No observed adverse effect level - 1,000 mg/kg

Repeated dose toxicity - Rat - male and female - inhalation (vapour) - 90 Days - No observed adverse effect level - 300 mg/kg

RTECS: QJ0525000 After absorption:

Headache Stomach/intestinal disorders Tremors Convulsions Changes in the blood count

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Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Heart -

#### **SECTION 12. ECOLOGICAL INFORMATION**

| Ecotoxicity   |   |   |
|---|---|---|
| Components:   |   |   |
| Naphthalene:  |   |   |
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6<br>mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 2.16 mg/l<br>End point: Immobilization<br>Exposure time: 48 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 202             |
| Toxicity to algae/aquatic<br>plants                 | : | EC50 (Pseudokirchneriella subcapitata (green algae)):<br>2.96 mg/l<br>Exposure time: 4 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: US-EPA<br>Remarks: (ECHA)                   |
| Toxicity to fish (Chronic<br>toxicity)              | : | LC50 (Oncorhynchus kisutch (coho salmon)): 2.1 mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Analytical monitoring: yes<br>Remarks: (ECHA)                     |
|   |   | NOEC (Oncorhynchus kisutch (coho salmon)): 0.37<br>mg/l<br>End point: Growth inhibition<br>Exposure time: 40 Days<br>Test Type: flow-through test<br>Analytical monitoring: yes                         |
|   |   |   |

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Remarks: (ECHA)

| Toxicity to daphnia and other aquatic | : | NOEC (Daphnia pulex (Water flea)): 0.59 mg/l<br>End point: mortality |
|---------------------------------------|---|--|
| invertebrates (Chronic toxicity)      |   | Exposure time: 125 d<br>Test Type: static test                       |
|                                       |   | Analytical monitoring: yes   |
|                                       |   | Remarks: (ECHA)  |

#### **Ecotoxicology Assessment**

| Acute aquatic toxicity   | : | Very toxic to aquatic life.                           |
|--------------------------|---|---|
| Chronic aquatic toxicity | : | Very toxic to aquatic life with long lasting effects. |

# Persistence and degradability

#### **Components:**

# Naphthalene:

| Biodegradability | : aerobic<br>Inoculum: activated sludge, non-adapted<br>Concentration: 100 mg/l<br>Result: Not readily biodegradable.<br>Biodegradation: 2 %<br>Exposure time: 28 d |
|------------------|---|
|                  | Method: OECD Test Guideline 302C  |

#### **Bioaccumulative potential**

#### **Components:**

# Naphthalene:

| Bioaccumulation           | : | Species: Cyprinus carpio (Carp)<br>Bioconcentration factor (BCF): 36.5 - 168<br>Exposure time: 56 d<br>Temperature: 77 °F / 25 °C<br>Method: OECD Test Guideline 305<br>Remarks: Bioaccumulation is unlikely. |
|---------------------------|---|---|
| Partition coefficient: n- | : | log Pow: 3.4 (77 °F / 25 °C)  |

# octanol/water pH: 7 - 7.5 Method: OECD Test Guideline 107 Remarks: Bioaccumulation is not expected.

82 Protection of Stratospheric Ozone - CAA Section

# Mobility in soil

No data available

# **Other adverse effects**

#### **Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part

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602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

# SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

| Waste from residues | : Waste material must be disposed of in accordance<br>with the national and local regulations. Leave<br>chemicals in original containers. No mixing with other<br>waste. Handle uncleaned containers like the product<br>itself. |
|---------------------|--|
|                     |  |

# **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

| IATA-DGR<br>UN/ID No.<br>Proper shipping name<br>Class<br>Packing group<br>Labels<br>Packing instruction (cargo<br>aircraft)<br>Packing instruction<br>(passenger aircraft) | : | UN 1334<br>Naphthalene, refined<br>4.1<br>III<br>Division 4.1 - Flammable solids<br>449<br>446 |
|---|---|--|
| IMDG-Code<br>UN number<br>Proper shipping name<br>Class<br>Packing group<br>Labels<br>EmS Code<br>Marine pollutant  | : | UN 1334<br>NAPHTHALENE, REFINED<br>4.1<br>III<br>4.1<br>F-A, S-G<br>yes                        |

# Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **National Regulations**

# 49 CFR Road

| UN/ID/NA number<br>Proper shipping name | - | UN 1334<br>Naphthalene, refined               |
|---|---|---|
| Class<br>Packing group<br>Labels        | : | 4.1<br>III<br>Division 4.1 - Flammable solids |
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| ERG Code         | : | 133 |
|------------------|---|-----|
| Marine pollutant | : | yes |

Poison Inhalation Hazard : No

# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# SECTION 15. REGULATORY INFORMATION

# **CERCLA Reportable Quantity**

| Components  | CAS-No. Component Calculated pro |          | Calculated product |
|-------------|----------------------------------|----------|--------------------|
|             |                                  | RQ (lbs) | RQ (lbs)           |
| Naphthalene | 91-20-3                          | 100      | 100                |

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312<br>Hazards | : Fire Hazard<br>Acute Health Hazard<br>Chronic Health Hazard  |
|-------------------------|--|
| SARA 313                | : This material does not contain any chemical components with known CAS numbers that exceed threshold (De Minimis) reporting levels established SARA Title III, Section 313. |

# **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

>= 90 - <= 100 % Naphthalene 91-20-3 This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

91-20-3 >= 90 - <= 100 % Naphthalene The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3: >= 90 - <= 100 %

Naphthalene 91-20-3

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada



the by

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307 Naphthalene 91-20-3 >= 90 - <= 100 % This product contains the following priority pollutants related to the U.S. Clean Water Act: Naphthalene 91-20-3 >= 90 - <= 100 % **US State Regulations** Massachusetts Right To Know Naphthalene 91-20-3 Maine Chemicals of High Concern Product does not contain any listed chemicals **Vermont Chemicals of High Concern** Product does not contain any listed chemicals Washington Chemicals of High Concern Product does not contain any listed chemicals The components of this product are reported in the following inventories: TSCA : All substances listed as active on the TSCA inventory

# TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

| ACGIH<br>NIOSH REL<br>OSHA Z-1 | : | USA. ACGIH Threshold Limit Values (TLV)<br>USA. NIOSH Recommended Exposure Limits<br>USA. Occupational Exposure Limits (OSHA) - Table Z-<br>1 Limits for Air Contaminants |
|--------------------------------|---|---|
| ACGIH / TWA<br>NIOSH REL / TWA |   | 8-hour, time-weighted average<br>Time-weighted average concentration for up to a 10-  |
| NIOSH REL / ST                 | : | hour workday during a 40-hour workweek<br>STEL - 15-minute TWA exposure that should not be<br>exceeded at any time during a workday                                       |
| OSHA Z-1 / TWA                 | : | 8-hour time weighted average  |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous

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Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Decomposition Temperature; SARA - Superfund Accelerating Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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