



## MATERIAL SAFETY DATA SHEET

# NAPHTHALENE

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Substance / mixture	Naphthalene
Chemical name	Substance
CAS number	Naphthalene
Index number	91-20-3
EC (EINECS) number	601-052-00-2
Registration number	202-049-5
Other substance name	01-2119561346-37-0007
	Naphthalene, Naftalin

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against Substance's intended use

Chemical production, analytical chemistry, laboratory synthesis, industrial applications.

#### Substance uses advised against

The product should not be used in ways other than those referred in Section 1

#### 1.4 Emergency telephone number

European emergency number: 112

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Flam. Sol. 2, H228

Acute Tox. 4, H302

Carc. 2, H351

Aquatic Chronic 1, H410 (multiplying factor = 1)

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse physico-chemical effects

Flammable solid.



### Most serious adverse effects on human health and the environment

Harmful if swallowed. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Hazard pictogram



### Signal word

Warning

### Dangerous substance

naphthalene

(Index: 601-052-00-2; CAS: 91-20-3)

### Hazard statements

H228

Flammable solid.

H302

Harmful if swallowed.

H351

Suspected of causing cancer.

H410

Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves.

### Supplemental information

Restricted to professional users.

## 2.3 Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.



Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-052-00-2 CAS: 91-20-3 EC: 202-049-5 Registration number: 01-2119561346-37-0007	<b>Substance main component</b> naphthalene	<b>&gt;99</b>	Flam. Sol. 2, H228 Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	<b>1</b>

#### Notes

1 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

##### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.



#### **If swallowed**

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

##### **If inhaled**

Not expected.

##### **If on skin**

Not expected.

##### **If in eyes**

Not expected.

##### **If swallowed**

Irritation, nausea.

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

Symptomatic treatment

### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### **Unsuitable extinguishing media**

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### **5.3 Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus





and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

### 6.2 Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

### 6.4 Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Avoid release to the environment.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Storage temperature max. 25 °C



### 7.3 Specific end use(s)

Not available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### European Union

#### Commission Directive 91/322/EEC

Substance name (component)	Type	Value
naphthalene (CAS: 91-20-3)	OEL 8 hours	50 mg/m <sup>3</sup>
	OEL 8 hours	10 ppm

#### DNEL

naphthalene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	25 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Inhalation	25 mg/m <sup>3</sup>	Local chronic effects		
Workers	Dermal	3.57 mg/kg	Systemic chronic effects		

#### PNEC

naphthalene

Route of exposure	Value	Value determination	Source
Drinking water	2.4 µg/l		
Freshwater sediment	67.2 µg/kg		
Soil (agricultural)	53.3 µg/kg		

### 8.2 Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

It is not needed.



### Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

### Respiratory protection

It is not needed.

### Thermal hazard

Not available.

### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.  
Collect spillage.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	characteristic
Melting point/freezing point	80-82 °C
Boiling point or initial boiling point and boiling range	218 °C
Flammability	data not available
Lower and upper explosion limit	
bottom	0,9 %
upper	5,9 %
Flash point	79 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	31,7 mg/l
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	0,004 hPa at 20 °C
Density and/or relative density	
Density	1,15 g/cm <sup>3</sup> at 20 °C

### 9.2 Other information not available



## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The substance is flammable.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the substance.

#### Acute toxicity

Harmful if swallowed.  
naphthalene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	533 mg/kg			

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.





#### **Serious eye damage/irritation**

Based on available data the classification criteria are not met.

#### **Respiratory or skin sensitisation**

Based on available data the classification criteria are not met.

#### **Germ cell mutagenicity**

Based on available data the classification criteria are not met.

#### **Carcinogenicity**

Suspected of causing cancer.

#### **Reproductive toxicity**

Based on available data the classification criteria are not met.

#### **Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

#### **Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

#### **Aspiration hazard**

Based on available data the classification criteria are not met.

#### **11.2. Information on other hazards**

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **12.1. Toxicity**

##### **Acute toxicity**

Very toxic to aquatic life with long lasting effects.  
naphthalene

Parameter	Value	Exposure time	Species	Environment
LC50	0.9 mg/l		Fishes	



### 12.2. Persistence and degradability

not available

### 12.3. Bioaccumulative potential

naphthalene

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
	<2000				

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100. The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.



### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.

Decision 2000/532/EC establishing a list of wastes, as amended.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number or ID number

UN 1334

### 14.2. UN proper shipping name

NAPHTHALENE, CRUDE

### 14.3. Transport hazard class(es)

4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives

### 14.4. Packing group

III - substances presenting low danger

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not available

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

### Additional information

Hazard identification No.

40

UN number

1334

Classification code

F1

Safety signs

4.1+hazardous for the environment



### Air transport - ICAO/IATA

Packaging instructions passenger

446

Cargo packaging instructions

449

**Marine transport - IMDG**

EmS (emergency plan)

F-A, S-G

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

**15.2. Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: OTHER INFORMATION**

A list of standard risk phrases used in the safety data sheet

H228	Flammable solid.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Guidelines for safe handling used in the safety data sheet**

P280	Wear protective gloves.
P273	Avoid release to the environment.



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**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population log Kow Octanol-water partition coefficient



MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Carc.	Carcinogenicity
Flam. Sol.	Flammable solid

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.



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### **The changes (which information has been added, deleted or modified)**

The version 2.0 replaces the SDS version from 17 September 2019. Changes were made in sections 1,2,4,5,13, 15 and 16.

### **More information**

Classification procedure - calculation method.

### **Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

