

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**1-Bromnaphthalin**

Revision date: 12.03.2024

Product code: KSO-006

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

1-Bromnaphthalin

Substance name: 1-bromonaphthalene  
CAS No: 90-11-9  
EC No: 201-965-2

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

Laboratory chemicals  
Equipment maintenance

**Uses advised against**

The product is only to be used for the intended application.

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

Company name: KERN & SOHN GmbH  
Street: Ziegelei 1  
Place: D-72336 Balingen-Frommen  
Telephone: +49743399330  
E-mail: info@kern-sohn.com  
Contact person: Daniel Junger  
E-mail: daniel.junger@kern-sohn.com  
Internet: www.kern-sohn.com

Telefax: +4974339933149

Telephone: +497433 9933 155

**1.4. Emergency telephone number:**

+353 1 8092566 (Healthcare Professionals) +353 1 8092166 (consumer | 8am – 10pm | 7 days a week)

**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

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008**

Signal word: Warning

Pictograms:

**Hazard statements**

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P330 Rinse mouth.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Do not discard content with household waste and forward for disposal according to regional/national guidelines.

#### 2.3. Other hazards

In case of warming: Vapours can form explosive mixtures with air.

This substance does not meet the criteria for classification as PBT or vPvB.

This substance does not have endocrine disrupting properties with respect to humans.

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Special danger of slipping by leaking/spilling product.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
90-11-9	1-bromonaphthalene			100 %
	201-965-2			
	Acute Tox. 4, Eye Irrit. 2; H302 H319			

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
90-11-9	201-965-2	1-bromonaphthalene	100 %
	oral: LD50 = 810 mg/kg		

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. When in doubt or if symptoms are observed, get medical advice.

##### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

##### After contact with eyes

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Causes eye irritation. Causes mild skin irritation.

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

Treat symptomatically.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

Fight larger fire with water spray jet or alcohol-resistant foam.

**Unsuitable extinguishing media**

High power water jet.

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

Vapours can form explosive mixtures with air. Danger of bursting container.

In case of fire or overheating hazardous fumes may develop.

Carbon monoxide. Carbon dioxide. Irritating/poisonous gasses and vapours. Bromine hydrogen (HBr).

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**For emergency responders**

Remove persons to safety.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

In case of leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Provide adequate ventilation. Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Avoid the formation of aerosol. Do not breathe gas/fumes/vapour/spray. Use

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personal protection equipment.

Do not empty into drains; dispose of this material and its container in a safe way.

**Advice on protection against fire and explosion**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

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

Keep container tightly closed. Keep locked up. Provide adequate ventilation as well as local exhaust at critical locations.

**Hints on joint storage**

Store separately from foodstuff.

Do not store together with: Oxidizing agents, strong. Pyrophoric or self-heating substances

**Further information on storage conditions**

Keep away from heat. Protect from direct sunlight.

**7.3. Specific end use(s)**

Laboratory chemicals

Equipment maintenance

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

Currently there are no further exposure limits available.

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Eye glasses with side protection

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Tested protective gloves are to be worn:

Unsuitable material: Natural fibres (e.g. cotton). leather.

Tested protective gloves are to be worn:

Recommended material:

NBR (Nitrile rubber).

Thickness of glove material: >0,4 mm

penetration time (maximum wearing period): > 30 min

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For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing. Chemical resistant suit. Apron.  
Chemical resistant safety shoes.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.  
Respiratory protection necessary at: aerosol or mist formation  
short-term  
Filtering device (full mask or mouthpiece) with filter: ABEK-P2, ABEK-P3  
long-term:  
Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid (viscous)
Colour:	dark brown
Odour:	stinging
Melting point/freezing point:	-2 - -1 °C
Boiling point or initial boiling point and boiling range:	281 °C
Flammability:	no data available
Lower explosion limits:	no data available
Upper explosion limits:	no data available
Flash point:	110 °C
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH-Value:	no data available
Viscosity / kinematic:	no data available
Water solubility:	insoluble
Solubility in other solvents	no data available
Dissolution rate:	no data available
Partition coefficient n-octanol/water:	4,35
Dispersion stability:	no data available
Vapour pressure:	no data available
Density:	1,485 g/cm <sup>3</sup>
Relative density:	no data available
Bulk density:	no data available
Relative vapour density:	no data available
Particle characteristics:	no data available no data available

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties	
not Explosive.	
Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	no data available
Gas:	no data available
Oxidizing properties	
no data available	

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#### Other safety characteristics

Evaporation rate:	no data available
Solid content:	no data available
Sublimation point:	no data available
Softening point:	no data available
Pour point:	no data available
Viscosity / dynamic:	no data available
Flow time:	no data available

#### Further Information

no data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactivity under regular conditions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Reaction with: Oxidizing agents, strong.  
In case of warming: Vapours can form explosive mixtures with air.

#### 10.4. Conditions to avoid

Keep away from heat. Protect from direct sunlight.

#### 10.5. Incompatible materials

Oxidizing agents, strong. Pyrophoric or self-heating substances

#### 10.6. Hazardous decomposition products

Gases/vapours, toxic  
Gases/vapours, flammable  
In case of fire or overheating hazardous fumes may develop.  
Carbon monoxide. Carbon dioxide. Bromine hydrogen (HBr).

### SECTION 11: Toxicological information

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

##### Acute toxicity

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
90-11-9	1-bromonaphthalene				
	oral	LD50 mg/kg	810	Rat	

##### Irritation and corrosivity

Causes serious eye irritation.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

##### Sensitising effects

Based on available data, the classification criteria are not met.

##### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

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**STOT-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****Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information****12.1. Toxicity**

Based on available data, the classification criteria are not met.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
90-11-9	1-bromonaphthalene	4,35

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself. Cleaned containers may be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

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<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No special precautions known.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 3 - highly hazardous to water

**Additional information**

Observe in addition any national regulations!

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.



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**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,15,16.

Version 1,00 - 02.07.2019 - first creation

Version 1,01 - 12.03.2024 - General update

**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Eye Irrit: Eye irritation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: Norm of the International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Octanol/water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, bio-cumulative, toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bio-cumulative

VwVwS: Administrative Regulation for Water Pollutants

WGK: German Water Hazard Class

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value

STOT: Specific Target Organ Toxicity

AwsV: Ordinance on Installations for Handling Substances Hazardous to Water

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

**Further Information**

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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