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		according to Regulation (EC) No 1907/2006 (REACH) a	as amended				
			naphthalene					
Creat	ion date	26th January 2023	•					
Revisi	on date	30th March 2023	Version	2.0				
SECT	ION 1: Identification	of the substance/mixture	and of the company/ur	ndertaking				
1.1.	Product identifier	-	1-Bromnaphthale	-				
	Substance / mixture		substance					
	Chemical name		1-bromonaphtha	lene				
	CAS number		90-11-9					
	EC (EINECS) number		201-965-2					
1.2.	Relevant identified	uses of the substance or	mixture and uses advise	ed against				
Substance's intended use								
			Laboratory chemicals. Production of substances.					
		. Production of substances.						
	Laboratory chemicals Substance uses adv	. Production of substances.	n those referred in Section	1.				
1.3.	Laboratory chemicals Substance uses adv The product should no	. Production of substances. /ised against		1.				
1.3.	Laboratory chemicals Substance uses adv The product should no	 Production of substances. vised against ot be used in ways other the 		1.				
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1.3.	Laboratory chemicals Substance uses adv The product should ne Details of the suppl Supplier Name or trade Address Identification ne VAT Reg No	. Production of substances. vised against ot be used in ways other the lier of the safety data she name	et Ing. Petr Švec - F Radiová 1122/1, Czech Republic 02096013 CZ02096013	PENTA s.r.o. Praha 10, 102 00 31				
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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.

Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

Most serious adverse effects on human health and the environment

Harmful if swallowed. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram





SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

I-BromnaphthaleneCreation date26th January 2023Revision date30th March 2023Version2.0

Dangerous substance

1-bromonaphthalene	
(EC: 201-965-2; CAS	: 90-11-9)
Hazard statements	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary state	ments
P260	Do not breathe Dust.
P273	Avoid release to the environment.
P280	Wear eye protection.
P301+P312	IF SWALLOWED: Call a doctor if you feel unwell.
P305+P351+P338	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

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.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 90-11-9 EC: 201-965-2	substance main component 1-bromonaphthalene	≥99	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

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. Provide medical treatment, specialized if possible.

If swallowed

Provide medical treatment.



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended 1-Bromnaphthalene Creation date 26th January 2023 Revision date 30th March 2023 Version 2.0 4.2. Most important symptoms and effects, both acute and delayed If inhaled Not expected. If on skin Not expected. If in eyes Causes serious eye irritation. 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. 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

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

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 contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. 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.

7.3. Specific end use(s)

not available



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8.1. Control parameters

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.

Protective goggles.

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	liquid
Colour	yellow
Odour	data not available
Melting point/freezing point	-21 °C
Boiling point or initial boiling point and boiling range	133-134 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	110 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,48 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Other information	
not available	

SECTION 10: Stability and reactivity

10.1. Reactivity

9.2.

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions Unknown.



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Revisio	on date	30th March 2023	Version	2.0
10.4.	Conditions to av	void		
	The product is sta against frost.	able and no degradation occurs	under normal use. Protec	t against flames, sparks, overheating an
10.5.	5	aterials		
	Protect against st	rong acids, bases and oxidizing	agents.	
10.6.		mposition products		
	Not developed un high temperature		tcomes such as carbon me	onoxide and carbon dioxide are formed a
SECTI	ON 11: Toxicolog			
11.1.		hazard classes as defined in		2/2008
	5	ata is available for the substance	е.	
	Acute toxicity	und		
	Harmful if swallow Skin corrosion			
	-	e data the classification criteria	ara not mot	
	Serious eye dan		are not met.	
	Causes serious eye	_		
		kin sensitisation		
		e data the classification criteria	are not met	
	Germ cell mutag			
		e data the classification criteria a	are not met.	
	Carcinogenicity			
		e data the classification criteria a	are not met.	
	Reproductive to	xicity		
	Based on availabl	e data the classification criteria	are not met.	
	Toxicity for spe	cific target organ - single exp	osure	
	Based on availabl	e data the classification criteria a	are not met.	
	Toxicity for spe	cific target organ - repeated o	exposure	
		e data the classification criteria a	are not met.	
	Aspiration haza	rd		
		e data the classification criteria a	are not met.	
11.2.	Information on			
		es not have endocrine disrupting tion (EU) 2017/2100 or Commis		with the criteria set out in Commission /605.
SECTI	ON 12: Ecologica	l information		
12.1.	Toxicity			
	Acute toxicity			
		atic life with long lasting effects.		
12.2.	Persistence and	degradability		
	not available			

12.3. Bioaccumulative potential 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



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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.

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 3082
- 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-bromnaphthalene)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

- 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

Safety signs

Hazard identification No. UN number Classification code 90 3082

M6

9+hazardous for the environment



Air transport - ICAO/IATA	
Packaging instructions passenger	964
Cargo packaging instructions	964
Marine transport - IMDG	
EmS (emergency plan)	F-A, S-F



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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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Guidelines for safe handling	y used in the safety data sheet
P260	Do not breathe Dust.
P273	Avoid release to the environment.
P280	Wear eye protection.
P301+P312	IF SWALLOWED: Call a doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other important information	n about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms 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
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
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
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic



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ppm	Parts per million			
REACH	Registration, Eva	luation, Authorisation and	Restriction of Chemicals	
RID	Agreement on the	e transport of dangerous g	oods by rail	
UN	Four-figure identi Model Regulation	fication number of the sub s	stance or article taken fro	om the UN
UVCB	Substances of un biological materia	known or variable compos Ils	ition, complex reaction pr	oducts or
VOC	Volatile organic c	ompounds		
vPvB	Very Persistent a	nd very Bioaccumulative		
Acute Tox.	Acute toxicity			
Aquatic Acute	Hazardous to the	aquatic environment		
Aquatic Chronic	Hazardous to the	aquatic environment (chr	onic)	
Eye Irrit.	Eye irritation			
Training guideline	25			
Inform the personn ways of handling th	el about the recommended wa e product.	ays of use, mandatory pro	tective equipment, first a	id and prohibite
Recommended res	strictions of use			
not available				
Information abou	t data sources used to com	pile the Safety Data She	et	
REGULATION (EC)	No. 1907/2006 OF THE EUR No. 1272/2008 OF THE EURC f the substance / mixture, if a	PEAN PARLIAMENT AND	OF THE COUNCIL as ame	
The changes (whi	ch information has been ad	lded, deleted or modifie	d)	
The version 2.0 rep	laces the SDS version from 26	5 January 2023. Changes v	vere made in sections 1, 2	2, 12, 15 and 1
More information				
Classification proced	dure - calculation method.			

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.