

			DATA SHEET	
		according to Regulation (EC)	No 1907/2006 (REACH) as Octanol	amended
Creati	on date		octanoi	
	on date	01st January 2022	Version	4.0
		-		
1.1.	Product identification	of the substance/mixture	and of the company/und 1-Octanol	ertaking
1.1.	Substance / mixture		substance	
	Chemical name		n-Octyl alcohol	
	CAS number		111-87-5	
	EC (EINECS) number		203-917-6	
	Registration number		01-2119486978-10)-***
	Other substance nam		01 2119400970 10	
	1-Octyl alcohol			
1.2.	,	uses of the substance or n	nixture and uses advised	against
	Substance's intend			aganist
		analytical chemistry, laborate	ory synthesis, industrial app	lications.
	Substance uses adv			
		ot be used in ways other ther	those referred in Section 1	
1.3.		lier of the safety data shee		
	Supplier	•		
	Name or trade	name	Ing. Petr Švec - PE	NTA s.r.o.
	Address		Radiová 1122/1, Pr	
			Czech Republic	
	Identification n	umber (CRN)	02096013	
	VAT Reg No		CZ02096013	
	Phone		+420 226 060 681	
	E-mail		info@pentachemica	
	Web address		www.pentachemica	
	Competent person	responsible for the safety		
	Name		Ing. Petr Švec - PE	NTA s.r.o.
	E-mail		info@pentachemica	
1.4.	Emergency telepho	one number	-1	
	European emergency	number: 112		

Most serious adverse effects on human health and the environment Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements







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Dangerous substance

n-Octyl alcohol (EC: 203-917-6; CAS: 111-87-	5)
Hazard statements	
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	
P280	Wear eye protection.
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 su	bstance s	specified	below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 111-87-5 EC: 203-917-6	substance main component n-Octyl alcohol		Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
Registration number: 01-2119486978-10- xxxx				

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 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

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.



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4.2.	Most im	portant symptoms and effects, both a	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

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. 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. Storage class 12 - Other non-combustible liquids

7.3. Specific end use(s)

not available



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SECTION 8: Exposure controls/personal protection

Control parameters

DNEL

8.1.

n-Octyl alcohol

Route of exposure	Value	Effect	Value determination	Source
Dermal	125 mg/kg bw	Acute effects systemic		
Inhalation	220 mg/m ³	Acute effects systemic		
Dermal	75 mg/kg bw	Acute effects systemic		
Inhalation	65 mg/m ³	Acute effects systemic		
	exposure Dermal Inhalation Dermal	exposure Value Dermal 125 mg/kg bw Inhalation 220 mg/m ³ Dermal 75 mg/kg bw	exposure Value Effect Dermal 125 mg/kg bw Acute effects systemic Inhalation 220 mg/m³ Acute effects systemic Dermal 75 mg/kg bw Acute effects systemic	exposure Value Effect determination Dermal 125 mg/kg bw Acute effects systemic Inhalation Inhalation 220 mg/m³ Acute effects systemic Inhalation Dermal 75 mg/kg bw Acute effects systemic Inhalation

n-Octyl alcohol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.2 mg/l		
Marine water	0.02 mg/l		
Freshwater sediment	2.1 mg/kg		
Sea sediments	0.21 mg/kg		
Soil (agricultural)	1.6 mg/kg		

8.2. Exposure controls

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

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). Suitable material: polychloroprene. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly.

Respiratory protection

Respirator. Mask with a filter against organic vapours in a poorly ventilated environment.

- **Thermal hazard**
- Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	-15 °C
Boiling point or initial boiling point and boiling range	196 °C
Flammability	data not available
Lower and upper explosion limit	
bottom	0,8 %
upper	data not available
Flash point	80 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available



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pН		data not available		
Kinematic vis	scosity	data not available		
Solubility in v	water	data not available		
Solubility in f	fats	data not available		
Partition coe	fficient n-octanol/water (log value)	2,8		
Vapour press	sure	0,19hPa at 25 °C		
Density and/	or relative density			
Density		0,827 g/cm ³		
Relative of	density	data not available		
Relative vapo	our density	data not available		
Particle chara	acteristics	data not available		
9.2. Other inform	mation			
Evaporation	rate	data not available		

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-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

No toxicological data is available for the substance. Acute toxicity

Based on available data the classification criteria are not met. n-Octyl alcohol

Exposure Route of exposure Parameter Method Value Species Sex time LD 50 OECD 401 F/M Oral >5 000 mg/kg Rat Dermal LD 50 **OECD 402** >2 000- 4 000 Rabbit mg/kg

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

n-Octyl alcohol

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating	OECD 405		Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.



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Germ cell mu	Itagenicity				
Carcinogenic					
Based on avai	lable data the classification criteria a	ire not met.			
Reproductive	e toxicity				
Based on avai	lable data the classification criteria a	ire not met.			
Toxicity for s	pecific target organ - single exp	osure			
Based on avai	lable data the classification criteria a	ire not met.			
Toxicity for s	pecific target organ - repeated e	exposure			
Based on avai	lable data the classification criteria a	ire not met.			
Aspiration ha	azard				
Based on avai	lable data the classification criteria a	ire not met.			
1.2. 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

Harmful to aquatic life with long lasting effects.

n-Octyl alcohol

Parameter	Method	Value	Exposure time	Species	Environmen t
LC₅o	OECD 203	13 mg/kg	96 hours	Fish (Pimephales promelas)	
EC50	OECD 201	6.5 mg/kg	48 hours	Algae (Desmodesmus subspicatus)	
EC50	OECD 209	350 mg/l	3 hours	Bacteria	Activated sludge

12.2. Persistence and degradability

Biodegradability

1-Octanol

Parameter	Method	Value	Exposure time	Environment	Result	
					Easily biodegradable	
n-Octyl alcohol						
Parameter	Method	Value	Exposure time	Environment	Result	

Parameter	Method	value	Exposure time	Environment	Result
	OECD 310	92 %	28 days		Easily biodegradable
and as a labor					

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

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.



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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

not subject to transport regulations

- **14.2.** UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant

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	n
A list of standard risk	phrases used in the safety data sheet
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Guidelines for safe har	ndling used in the safety data sheet
P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended 1-Octanol Creation date 29th June 2016 Revision date 01st January 2022 Version 4.0 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 European agreement concerning the international carriage of dangerous goods by ADR 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 EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances EmS Emergency plan EU European Union EuPCS European Product Categorisation System International Air Transport Association IATA International Code For The Construction And Equipment of Ships Carrying IBC **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 LC 50 Lethal concentration of a substance in which it can be expected death of 50% of the population Lethal dose of a substance in which it can be expected death of 50% of the I D 50 population log Kow Octanol-water partition coefficient OEL Occupational Exposure Limits PBT Persistent, Bioaccumulative and Toxic 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

Aquatic Chronic Eye Irrit.

Eye Irrit.

Training guidelines

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

Hazardous to the aquatic environment (chronic)

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

Eye irritation

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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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.