

		N-Phenyld	iethanolamine			
	on date	18th May 2020				
Revisi	on date	28th November 2024	Version 3.0			
SECT	ION 1: Identification o	f the substance/mixture a	nd of the company/undertaking			
1.1.	Product identifier		N-Phenyldiethanolamine			
	Substance / mixture		substance			
	Chemical name		N-Phenyldiethanolamine			
	CAS number		120-07-0			
	EC (EINECS) number		204-368-5			
	Other substance name					
	N-Phenyldiethan					
1.2.	Relevant identified u	ises of the substance or m	ixture and uses advised against			
	Substance's intende					
	Chemical production, a	analytical chemistry, laborato	ry synthesis, industrial applications.			
		Substance uses advised against				
	-	t be used in ways other than				
1.3.		er of the safety data sheet				
	Supplier					
	Name or trade n	ame	Ing. Petr Švec - PENTA s.r.o.			
	Address		Radiová 1122/1, Praha 10, 102 00			
			Czech Republic			
	Identification nu	mber (CRN)	02096013			
	VAT Reg No		CZ02096013			
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	E-mail Web address	esponsible for the safety d	www.pentachemicals.eu ata sheet			
	E-mail Web address Competent person re Name	esponsible for the safety d	www.pentachemicals.eu ata sheet Ing. Petr Švec - PENTA s.r.o.			
	E-mail Web address Competent person re Name E-mail		www.pentachemicals.eu ata sheet			
1.4.	E-mail Web address Competent person re Name E-mail Emergency telephon	e number	www.pentachemicals.eu ata sheet Ing. Petr Švec - PENTA s.r.o.			
1.4.	E-mail Web address Competent person re Name E-mail	e number	www.pentachemicals.eu ata sheet Ing. Petr Švec - PENTA s.r.o.			
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SECT	E-mail Web address Competent person ro Name E-mail Emergency telephon European emergency r	e number number: 112 112	www.pentachemicals.eu ata sheet Ing. Petr Švec - PENTA s.r.o.			
	E-mail Web address Competent person ro Name E-mail Emergency telephon European emergency r	e number number: 112 112 ication substance or mixture	www.pentachemicals.eu ata sheet Ing. Petr Švec - PENTA s.r.o.			

Eye Dam. 1, H318 STOT SE 1, H370 (haematopoietic system) Aquatic Chronic 3, H412

Most serious adverse effects on human health and the environment

Causes serious eye damage. May cause an allergic skin reaction. Causes damage to the hematopoetic system. Harmful to aquatic life with long lasting effects.

2.2. Label elements







SAFETY DATA SHEET

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

N-Phenyldiethanolamine Creation date 18th May 2020 Revision date 28th November 2024 Version 3.0 **Dangerous substance** N-Phenyldiethanolamine (EC: 204-368-5; CAS: 120-07-0) **Hazard statements** H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H370 Causes damage to the hematopoetic system. Harmful to aquatic life with long lasting effects. H412 **Precautionary statements** P260 Do not breathe dust. P280 Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact P305+P351+P338 lenses, if present and easy to do. Continue rinsing. P310 Immediately call a doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 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. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	dentification numbers Substance name		Classification according to Regulation (EC) No 1272/2008	Note
CAS: 120-07-0 EC: 204-368-5	substance main component N-Phenyldiethanolamine		Skin Sens. 1A, H317 Eye Dam. 1, H318 STOT SE 1, H370 (haematopoietic system) Aquatic Chronic 3, H412	

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.



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	according to Regulation (EC) I N-Phenyld 18th May 2020	N-Phenyldiethanolamine 18th May 2020	according to Regulation (EC) No 1907/2006 (REACH) as amended N-Phenyldiethanolamine 18th May 2020	

If in eyes

Do not rub your eyes – it could lead to mechanical damage of the cornea. 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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled

Inhaling dust can cause corrosion of the breathing system. Cough, headache.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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. Do not inhale dust. 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

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.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale dust. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. 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. Store locked up.

7.3. Specific end use(s) not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

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

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

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

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	Physical state	solid
	Colour	white
	Odour	data not available
	Melting point/freezing point	56-58 °C
	Boiling point or initial boiling point and boiling range	data not available
	Flammability	data not available
	Lower and upper explosion limit	
	bottom	0.7 %
	upper	data not available
	Flash point	200 °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	data not available



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	Relative vapou	r density	data not available	2		
	Particle charact	eristics	data not available	2		
9.2.	Other informa	ation				
	not available					

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

Causes damage to the hematopoetic system. Based on available data the classification criteria are not met.

N-Phenyldiethanolamine

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Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	3400 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	>2000 mg/kg		Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.



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Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Causes damage to the hematopoetic system.

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

Endocrine disrupting properties

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects. Acute toxicity

Acute toxicity

N-Phenyldiethanolamine				
Parameter	Value	Exposure time	Species	Environment
LC50	735 mg/l	96 hours	Fish (Pimephales promelas)	
EC₅o	94.4 mg/l		Daphnia (Daphnia magna)	

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

Based on available data the classification criteria are not met. Does not contain any PBT or vPvB components. 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

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

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.

SECTION 13: Disposal considerations



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13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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 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

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk ph	rases used in the safety data sheet
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H370	Causes damage to the hematopoetic system.
H412	Harmful to aquatic life with long lasting effects.
Guidelines for safe hand	ling used in the safety data sheet
P260	Do not breathe dust.
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

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P310	Immediately call a	doctor.			
P333+P313	If skin irritation or	rash occurs: Get medic	cal advice/attention.		
Other importan	t information about human hea	alth protection			
	t not be - unless specifically appro n 1. The user is responsible for ad		rer/importer - used for purposes other t health protection regulations.		
_	itions and acronyms used in th				
ADR	European agreeme road	nt concerning the inter	national carriage of dangerous goods by		
Aquatic Chronic	Hazardous to the a	quatic environment (ch	nronic)		
BCF	Bioconcentration Fa	actor			
CAS	Chemical Abstracts	Service			
CLP	Regulation (EC) No substance and mix		cation, labelling and packaging of		
EC	Identification code	for each substance list	ed in EINECS		
EC50	Concentration of a	substance when it is af	fected 50 % of the population		
EINECS	European Inventor	y of Existing Commerci	al Chemical Substances		
EmS	Emergency plan				
EU	European Union				
EuPCS	•	Categorisation System			
Eye Dam.	Serious eye damag				
IATA		ansport Association			
IBC		For The Construction A	and Equipment of Ships Carrying		
ICAO	_	Aviation Organization			
IMDG		me Dangerous Goods			
IMO	International Mariti	-			
INCI		enclature of Cosmetic I	narodionts		
ISO		nization for Standardiza			
IUPAC		of Pure and Applied C			
LC50			-		
	population		ich it can be expected death of 50% of t		
LD50	population		be expected death of 50% of the		
log Kow	Octanol-water part				
OEL	Occupational Expos	sure Limits			
PBT	Persistent, bioaccu	mulative and toxic			
PMT	Persistent, mobile a	and toxic			
ppm	Parts per million				
REACH	Registration, Evalu	ation, Authorisation an	d Restriction of Chemicals		
RID	_	transport of dangerous			
Skin Sens.	Skin sensitization	-			
STOT SE	Specific target orga	an toxicity - single expo	osure		
UN	Four-figure identifie Model Regulations	cation number of the su	ubstance or article taken from the UN		
UVCB	-		osition, complex reaction products or		
VOC	Volatile organic cor				
vPvB		l very bioaccumulative			
vPvM	Very persistent and				
		,			

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



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended N-Phenyldiethanolamine Creation date 18th May 2020 Revision date 28th November 2024 Version 3.0 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.

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

The version 3.0 replaces the SDS version from Thursday, 17 March 2022. Changes were made in sections 1, 2, 11, 12, 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.