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		according to Regulation (EC)		5 amended	
			nylamine		
	ion date	16th September 2016			
Revis	ion date	14th March 2023	Version	5.0	
SECT	ION 1: Identification	of the substance/mixture a	nd of the company/un	dertaking	
1.1.	Product identifier		Diethylamine	-	
	Substance / mixture		substance		
	Chemical name		diethylamine		
	CAS number		109-89-7		
	Index number		612-003-00-X		
	EC (EINECS) number		203-716-3		
	Registration number		01-2119475610-4	1-xxxx	
	Other substance nam	e			
	Diethylamine				
1.2.	Relevant identified	uses of the substance or m	ixture and uses advise	d against	
	Substance's intend	ed use			
	Chemical production,	analytical chemistry, laborato	ry synthesis, industrial ap	plications.	
	Substance uses adv	vised against			
	The product should n	ot be used in ways other than	those referred in Section	1.	
1.3.	Details of the supp	lier of the safety data sheet			
	Supplier				
	Name or trade	name	Ing. Petr Švec - P	ENTA s.r.o.	
	Address		Radiová 1122/1, F	Praha 10, 102 00	
			Czech Republic		
	Identification n	umber (CRN)	02096013		
	VAT Reg No		CZ02096013		
	Phone		+420 226 060 68	1	
	E-mail		info@pentachemic	cals.eu	
	Web address		www.pentachemic	cals.eu	
	Competent person	responsible for the safety d			
	Name		Ing. Petr Švec - P	ENTA s.r.o.	
	E-mail		info@pentachemic	cals.eu	
	Emergency telepho	ne number			
1.4.					

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. Liq. 2, H225 Acute Tox. 4, H302+H332 Acute Tox. 3, H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. Toxic in contact with skin. May cause respiratory irritation. Causes serious eye damage. Harmful if swallowed or if inhaled.

Safety data sheet

		SAFETY I					
		according to Regulation (EC)		as amended			
		Dieth	nylamine				
	on date	16th September 2016					
levisi	on date	14th March 2023	Version	5.0			
.2.	Label elements						
	Hazard pictogram						
	Signal word Danger						
	Dangerous substance						
	diethylamine (Index: 612-003-00-2	X; CAS: 109-89-7)					
	Hazard statements						
	H225	Highly flammable li					
	H311	Toxic in contact wit					
	H314	Causes severe skin	burns and eye damage.				
	H335	May cause respirate	-				
	H302+H332	Harmful if swallowe	d or if inhaled.				
	Precautionary state	ements					
	P210	Keep away from he No smoking.	at, hot surfaces, sparks,	open flames and other ignition sources.			
		Keep container tigh	tly closed				
	P233	- I	try closed.				
	P233 P280		ves/protective clothing.				
		Wear protective glo	ves/protective clothing.): Take off immediately a	all contaminated clothing. Rinse skin			
	P280	Wear protective glo IF ON SKIN (or hair with water or show IF IN EYES: Rinse c	ves/protective clothing.): Take off immediately a er.	several minutes. Remove contact			
	P280 P303+P361+P353	Wear protective glo IF ON SKIN (or hair with water or show IF IN EYES: Rinse of lenses, if present an	ves/protective clothing.): Take off immediately a er. autiously with water for s	several minutes. Remove contact			

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

The substance specified below.				
Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
Index: 612-003-00-X CAS: 109-89-7 EC: 203-716-3 Registration number: 01-2119475610-41- xxxx	diethylamine	≥99	Flam. Liq. 2, H225 Acute Tox. 4, H302+H332 Acute Tox. 3, H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Specific concentration limit: STOT SE 3, H335: $C \ge 1 \%$	1

Notes

1 A substance for which exposure limits are set.



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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. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

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. 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

Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause respiratory irritation. **If on skin**

Causes severe skin burns.

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.



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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. Do not inhale mist/vapours/spray. 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 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. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a wellventilated area. 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. Take action to prevent static discharges.

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. Keep container tightly closed. Keep cool.

8A - Combustible corrosive substances

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

Storage class

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union	Commission Directive 2006/15/EC		
Substance name (component)	Туре	Value	
	OEL 8 hours	15 mg/m ³	
disthularing (CAC, 100, 90, 7)	OEL 8 hours	5 ppm	
diethylamine (CAS: 109-89-7)	OEL 15 minutes	30 mg/m ³	
	OEL 15 minutes	10 ppm	



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DNEL

diethylamine					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	30 mg/kg	Acute effects local		
Workers	Inhalation	15 mg/kg	Chronic effects local		

PNEC

diethylamine					
Route of exposure	Value	Value determination	Source		
Marine water	0.004 mg/l				
Drinking water	0.04 mg/l				
Water (intermittent release)	0.046 mg/l				
Freshwater sediment	0.48 mg/kg				
Sea sediments	0.048 mg/kg				
Soil (agricultural)	0.0723 mg/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. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. 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 (fluorinated rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or 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 prope	rties
	Physical state	liquid
	Colour	colourless
	Odour	specific
	Melting point/freezing point	-50 °C
	Boiling point or initial boiling point and boiling range	56 °C
	Flammability	Highly flammable liquid and vapour.
	Lower and upper explosion limit	
	bottom	2 %
	upper	11.8 %
	Flash point	-23 °C
	Auto-ignition temperature	data not available

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I	Decomposition terr	perature	data not available		
I	рН		13 (undiluted at 2	20 °C)	
I	Kinematic viscosity	/	data not available		
9	Solubility in water		data not available		
9	Solubility in fats		data not available		
I	Partition coefficient	t n-octanol/water (log value)	0.58		
١	Vapour pressure		316 hPa at 25 °C		
[Density and/or rela	ative density			
	Density		0.71 g/cm ³		
	Relative density	ý	data not available		
F	Relative vapour de	nsity	data not available		
F	Particle characteris	stics	data not available		
9.2.	Other informatio	n			
I	Evaporation rate		data not available		

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is highly 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.

C Uppendante de companition une de sta

10.6. Hazardous decomposition products Not developed under normal uses. Dangerous outcomes such as

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. 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.

Acute toxicity

Toxic in contact with skin. Harmful if swallowed or if inhaled.

di	etl	hvl	laı	mi	ine

alethylamine						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50	OECD 401	540 mg/kg		Rat	М
Inhalation	LC50	OECD 403	17.3 mg/l	4 hours	Rat	F
Dermal	LD50	OECD 404	582 mg/kg		Rabbit	М

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.



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Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. 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

Based on available data the classification criteria are not met. **Acute toxicity**

diethylamin	diethylamine							
Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination		
LC50		25 - 182 mg/l	96 hours	Fish (Oncorhynchus mykiss)				
EC₅o	OECD 202	56 mg/l	48 hours	Daphnia (Daphnia magna)				
EC50		4.6 mg/l	48 hours	Daphnia (Ceriodaphnia dubia)		Semi static system		
EC50		47 mg/l	17 hours	Bacteria (Pseudomonas putida)				
EC₅o	OECD 201	56 mg/l	96 hours	Algae (Chl. pyrenoidosa)				

12.2. Persistence and degradability

The following data are available.



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Biodegradability

Diethylamine								
Parameter	Method	Value	Exposure time	Environment	Result			
					Easily biodegradable			
diethylamine	diethylamine							
Parameter	Method	Value	Exposure time	Environment	Result			
	OECD 301C	>70 %	28 days		Easily biodegradable			

12.3. Bioaccumulative potential

The following data are available.

diethylamine	diethylamine							
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Value determinatio n		
Log Pow	0.58					Experimenta Ily		

12.4. Mobility in soil

No data available for the substance.

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.

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 1154
- **14.2.** UN proper shipping name DIETHYLAMINE
- 14.3. Transport hazard class(es)
 - 3 Flammable liquids



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14.4.	Packing group					
	II - substances pres	senting medium danger				
14.5.	Environmental ha	zards				
	not relevant					
14.6.	Special precaution					
	Reference in the Se					
14.7.		rt in bulk according to IM	IO instruments			
	not relevant					
	Additional information					
	Hazard identifi	cation No.	338			
	UN number		1154			
	Classification c	ode	FC			
	Safety signs		3+8			
	Air transport - IC	AO/IATA				
	Packaging inst	ructions passenger	352			
	Cargo packagir	-	363			
	Marine transport					
	EmS (emergen	cy plan)	F-E, S-C			

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 been carried out.

SECTION 16: Other information

A list of standard ri	sk phrases used in the safety data sheet
H225	Highly flammable liquid and vapour.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H302+H332	Harmful if swallowed or if inhaled.
Guidelines for safe	handling used in the safety data sheet
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
The product must n as per the Section 1	 nformation about human health protection ot be - unless specifically approved by the manufacturer/importer - used for purposes other th The user is responsible for adherence to all related health protection regulations. ons and acronyms used in the safety data sheet 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
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
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
LC50	Lethal concentration of a substance in which it can be expected death of 50% of th 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
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	
RID	Registration, Evaluation, Authorisation and Restriction of Chemicals
UN	Agreement on the transport of dangerous goods by rail 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
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion



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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.

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

The version 5.0 replaces the SDS version from 24 January 2022. Changes were made in sections 1, 2, 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.