

# SAFETY DATA SHEET



Trade name: Neodecanoic acid

Print Date: 8. May 2025

Version: 6.3, revision date: 30.01.2025

Replaced version: 6.2, revision date: 13.05.2024

Region: EN

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### Handelsname

Neodecanoic acid

Registration Name

Neodecanoic acid

Registration Number

01-2119449554-33

CAS-#

26896-20-8

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

Chemical intermediate

Metalworking fluids

Rolling oil

Mining chemicals

#### Uses advised against

Do not use for private purposes (household).

Food, beverages and animal feed.

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

#### Company

SysKem Chemie GmbH

Rosenthalstrasse 22

D-42369 Wuppertal

Telephone

+49 (0) 202-317559-0

E-mail address

info@syskem.de

#### Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

### 1.4. Emergency telephone number

Poisoning Information Centre Freiburg, Tel. +49 761 19240.

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302

#### Notes on classification

The classification of the product has been determined on the basis of the following procedures according to Article 9 and the criteria of Regulation (EC) No 1272/2008:

Physical hazards: Evaluation of test data according to Annex I, Part 2

Health and environmental hazards: Evaluation of toxicological and ecotoxicological data according to Annex I, Part 3 and 4.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

##### Product identifier

26896-20-8 (neodecanoic acid)

##### Hazard pictograms



GHS 07

##### Signal word

Caution

##### Hazard statements

H302 Harmful if swallowed.

##### Precautionary statements

P264 Wash skin thoroughly after handling.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

According to the information provided in the supply chain: The product does not contain any components that are subject to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more of endocrine disrupting properties.

#### PBT assessment

According to information submitted in the supply chain: The product does not contain components with > 0.1% that are considered PBT.

#### vPvB assessment

According to the information provided in the supply chain: The product does not contain components with > 0.1% that are considered vPvB.



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**SECTION 3: Composition/information on ingredients****3.1 Substances****Chemical characterisation**

Name of the substance Neodecanoic acid  
Molecular weight 172

**Identification numbers**

CAS No. 26896-20-8

EC No. 248-093-9

**Acute toxicity estimates (ATE)**

oral	dermal	inhalative
-	-	3,1 mg/l

**3.2. Mixtures**

Not Applicable. This product is regulated as a substance.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position. In case of persisting adverse effects, consult a physician.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with copious amounts of water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

No data available.



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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media  
Carbon dioxide; Foam; Extinguishing powder; Water mist

Unsuitable extinguishing media  
High power water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Containers close to fire should be transferred to a safe place. Suppress gases/vapours/mists with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel  
Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

For emergency responders  
Personal protective equipment (PPE) – see section 8.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

### 6.4. Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.



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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should – so far as possible, according to the state of the art – be designed to rule out bodily contact or the release of hazardous substances. Observe information on personal protection equipment (see section 8).

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Avoid product contact with skin, eyes and clothing. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Do not inhale vapours/mist/spray. Provide eye wash fountain in work area.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Recommended storage temperature

Value: ambient temperature

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Appropriate Material:

stainless steel; polyethylene; aluminium; polypropylene; phenolic coatings

#### Inappropriate material:

Copper, copper alloys; epoxides; inorganic zinc; Amine epoxy; Polyamide

#### Incompatible products

Substances to be avoided, see section 10.

### 7.3. Specific end use(s)

No data available.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL, DMEL and PNEC values

##### DNEL values (Worker)

No	Substance name			CAS / EG no
	Route of exposure	Exposure time	Effect	Value
1	Neodecanoic acid			26896-20-8 248-093-9
	Dermal	Long term (chronic)	Systemic	29 mg/kg bw/day
	Inhalative	Long term (chronic)	Systemic	86 mg/m3

##### DNEL values (consumer)

No	Substance name			CAS / EG no
	Route of exposure	Exposure time	Effect	Value
1	Neodecanoic acid			26896-20-8 248-093-9
	Oral	Long term (chronic)	Systemic	17,5 mg/kg bw/day
	Dermal	Long term (chronic)	Systemic	17,5 mg/kg bw/day
	Inhalative	Long term (chronic)	Systemic	25,79 mg/m3

##### PNEC Value

PNEC Value			
No	Substance name		CAS / EG no
	Ecological compartment	Type	Value
1	Neodecanoic acid		26896-20-8 248-093-9
	Water	fresh water	0,11 mg/l
	Water	marine water	0,011 mg/l
	secondary poisoning	with reference to: food	- 0,017 g/kg

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

#### Personal protective equipment

##### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Short term: filter apparatus, Filter A

##### Eye / face protection

Safety glasses with side protection shield (EN 166)



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**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to e.g. EN 374, in the event of risk of skin contact with the product.

Before use, the protective gloves should be tested for work-station suitability (mechanical resistance, product compatibility, antistatic properties).

Adhere to the manufacturer's instructions and information relating to use, storage, care, and replacement.

Gloves shall be replaced immediately when physically damaged or worn.

Design operations to avoid permanent use of protective gloves.

**Other**

Chemical-resistant work clothes. Select PPE suitable for the activity and workplace conditions according to applicable CEN standards and in consultation with the supplier.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

State of aggregation:	liquid
Form:	liquid, clear
Colour:	colourless
Odour:	mild
pH value:	No data available
Boiling point / boiling range:	245 – 265 °C (Method: ASTM D 1078)
Melting point/freezing point:	No data available
Decomposition temperature:	No data available
Flash point	> 100 °C Method: ASTM D 93
Ignition temperature	No data available
Auto-ignition temperature	Value: > 300 °C
Flammability	No data available
Lower explosion limit	1,4 Vol.-%
Upper explosion limit	12,4 Vol.-%
Vapour pressure	0,3 kPa (100 °C) 0,012 kPa (50 °C)
Relative vapour density	> 1 Reference pressure 101 kPa Source: calculated value Air = 1
Evaporation rate	< 1 (n-butyl acetate = 1)
Relative density	0.913 (20 °C) Source: calculated value
Density	0.911 g/cm <sup>3</sup> (20 °C) Method: ASTM D 4052
Solubility in water	Comments: slightly soluble
Solubility (other)	No data available
Partition coefficient n-octanol/water (log value)	log Pow: 2.1 (25 °C) Method: OECD 117 Source: ECHA
Kinematic viscosity	Value: 40 mm <sup>2</sup> /s (20 °C) Type: kinematic Method: ASTM D 7042
Particle characteristics	No data available

**9.2. Other information**

No data available.



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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3. Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4. Conditions to avoid**

Extreme heat; Keep away from sources of ignition.

**10.5. Incompatible materials**

Aldehydes; Amines; Ammonia; Alkalis; Acids; Oxidizing agents

**10.6. Hazardous decomposition products**

None, if handled according to intended use. In case of fire: see section 5.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

No data available

**Acute dermal toxicity**

No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
LD50		> 3640 mg/kg bodyweight	
Species		rat	
Method		OECD 402	
Source		ECHA	

**Acute inhalational toxicity**

No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
LC50		> 3 mg/l	
Duration of exposure		6 h	
State of aggregation		vapour	
Species		rat	
Method		OECD 403	
Source		ECHA	



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Skin corrosion/irritation			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		low-irritant	

Serious eye damage/irritation			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		low-irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Route		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Method		OECD	
Source		ECHA	
Evaluation		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No data available			

Reproductive toxicity			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Method		OECD	
Source		ECHA	
Evaluation		Based on available data, the classification criteria are not met.	

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**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Route of exposure		oral	
Species		rat	
Method		OECD 408	
Source		ECHA	
Evaluation		Based on available data, the classification criteria are not met.	

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties:**

No data available

**Other information:**

No data available

**SECTION 12: Ecological information****12.1. Toxicity****Toxicity to fish (acute)**

No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
LL50		> 100 - 300 mg/l	
Duration of exposure		96 h	
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	

**Toxicity to fish (chronic)**

No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
NOEC		> 2,22 mg/l	
Duration of exposure		14 d	
Species		Oncorhynchus mykiss	
Method		OECD 305 E	
Source		ECHA	

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Toxicity to Daphnia (acute)			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
EL50		> 1000 mg/l	
Duration of exposure		48 h	
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
NOEC		3,4 mg/l	
Duration of exposure		7 d	
Species		Ceriodaphnia dubia	
Method		OECD 211	
Source		ECHA	

Toxicity to algae (acute)			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
EL50		> 100 mg/l	
Duration of exposure		72 h	
Species		Raphidocelis subcapitata	
Method		OECD 201	
Source		ECHA	

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

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**12.2. Persistence and degradability**

Biodegradability			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
Type		aerobic biodegradation	
Value		11 %	
Duration		28 d	
Method		OECD 301 F	
Source		ECHA	
Evaluation		not readily biodegradable	

**12.3. Bioaccumulative potential**

Bioconcentration factor (BCF)			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
BCF		< 225	
Species		Oncorhynchus mykiss	
Method		OECD 305	
Source		ECHA	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
log Pow		2,1	
Reference temperature		25 °C	
Method		OECD 117	
Source		ECHA	

**12.4. Mobility in soil**

Mobility in soil			
No	Substance name	CAS-No	EG-No
1	Neodecanoic acid	26896-20-8	248-093-9
log Koc		2,081	
Source		ECHA	



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

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the product contains no components with > 0.1% that are considered PBT.
vPvB assessment	According to the information provided in the supply chain, the product contains no components with > 0.1% that are considered vPvB.

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

No data available

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 UN number or ID number**

Not classified as dangerous in the meaning of transport regulations.

**14.2 UN proper shipping name**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Transport hazard class(es)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Packing group**

Not classified as dangerous in the meaning of transport regulations.

**14.5 Environmental hazards**

Not classified as dangerous in the meaning of transport regulations.



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**14.6 Special precautions for user**

No data available.

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

Product name: NEODECANOIC-ACID

Pollution category: Y

Ship type: 2

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in Annex XIV.

REACH candidate list of substances of very high concern (SVHC) for authorisation

The substance is not considered as a candidate for inclusion in Annex XIV according to Article 57 in conjunction with Article 59 of REACH Regulation (EC) 1907/2006. for inclusion in Annex XIV (list of substances subject to authorisation).

REACH Annex XVII: Restrictions

The product is subject to REACH Regulation (EC) 1907/2006 Annex XVII:

No. 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This substance is not subject to Part 1 or 2 of Annex I.

Other regulations

National health and safety regulations must be observed when using this product.

The employment restrictions serving to protect against hazardous substances in accordance with the Maternity Protection Act and the Youth Labour Protection Act must be observed.

**National regulations – Chemical inventories**

USA (TSCA): listed

DSL/NDSL (Canada): DSL listed

ENCS (Japan): listed

ECL (Korea): listed

AICS (Australia): listed

IECSC (China): listed

PICCS (Philippines): listed

Taiwan (TCSI): listed

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.



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## SECTION 16: Other information

The information is based on our current knowledge and experience.  
The safety data sheet describes products with regard to safety requirements.  
The information is not intended as a guarantee of properties and does not establish a contractual legal relationship.

### Data sources used to compile the data sheet:

The data is based on information from the upstream supplier/producer.

### List of relevant phrases (code and wording as given in chapters 2 and 3)

H302 Harmful if swallowed

### Department issuing the data sheet:

SysKem Chemie GmbH

Product Safety Department

Telephone number +49 (0) 0202-317559-0

### Training instructions:

Instruction on hazards and protective measures based on the operating instructions (TRGS 555).  
The instructions must be given before the start of employment and at least once a year thereafter.

### Reasons for changes:

Section 1

Section 16

Editorial changes



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**Abkürzungen und Akronyme**

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways of Dangerous Goods by Inland Waterways
ADR	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Regulation on classification, labelling and packaging [Regulation (EC) No 1272/2008]
DMEL	Derived minimum effect threshold value
DNEL	Derived no-effect threshold
EAK	European Waste Catalogue
EC Number	EINECS or ELINCS Number
EC50	Medium effective concentration
EUH statement	CLP-specific hazard statement
GHS	Globally harmonised system for the classification and labelling of chemicals
H statement	CLP/GHS Hazard statement
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Code for Dangerous Goods
LC50	Average lethal concentration
LD50	Average lethal dose
LogPow	Decadic logarithm of the octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships, 1973, as amended by the Protocol of 1978 ('Marpol' = marine pollution)
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, bioaccumulative and toxic
PNEC	Estimated non-effect concentration
REACH	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals of Chemicals [Regulation (EC) No 1907/2006]
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
STOT	Specific target organ toxicity
SVHC	Substance of Very High Concern
UN	United Nations
vPvB	very Persistent and very Bioaccumulative