

according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Version number: GHS 1.0

Date of compilation: 2020-10-29

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

#### 1.1 **Product identifier** Identification of the substance Hexanoic acid Registration number (REACH) this information is not available CAS number 142-62-1 Alternative name(s) hexanoic acid A0216412 Article number Relevant identified uses of the substance or mixture and uses advised against 1.2 Relevant identified uses General use Uses advised against Do not use for products which come into direct contact with the skin. 1.3 Details of the supplier of the safety data sheet Chemos GmbH & Co. KG Sonnenring 7 84032 Altdorf Germany Telephone: +49 871-966346-0 Telefax: +49 871-966346-13 e-mail: chemos@chemos.de Website: http://www.chemos.de/ e-mail (competent person) chemos@chemos.de 1.4 **Emergency telephone number** Emergency information service +49 89 1 92 40 Poison centre Postal code/ Telefax Country Name Telephone city SE14 5ER Lon-United Kingdom National Poison Information Centre +44 171 635 91 91 Medical Toxicology Unit don

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.2	skin corrosion/irritation	1C	Skin Corr. 1C	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Versio	on number: GHS 1.0	Date of compilation: 2020-10	)-29
2.2	Label elements		
	Labelling accordir	ng to Regulation (EC) No 1272/2008 (CLP)	
	- Signal word	danger	
	- Pictograms		
	GHS05		
	- Hazard statemer	nts	
	H314	Causes severe skin burns and eye damage.	
	- Precautionary st	atements	
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
	P280	Wear protective gloves/protective clothing/eye protection/face protection.	
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
	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.	:
	P310	Immediately call a POISON CENTER/doctor.	

Dispose of contents/container to industrial combustion plant.

### 2.3 Other hazards

P501

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Name of substance	Hexanoic acid
Identifiers	
CAS No	142-62-1
EC No	205-550-7
Molecular formula	C6H12O2
Molar mass	116.2 <sup>g</sup> / <sub>mol</sub>

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Version number: GHS 1.0

Date of compilation: 2020-10-29

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media Water jet

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

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

## 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Version number: GHS 1.0

Date of compilation: 2020-10-29

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

This information is not available.

### Human health values

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	17.63 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

#### **Environmental values**

Relevant PNECs and other threshold levels				
Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.358 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
PNEC	0.036 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
PNEC	1.88 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0.188 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
PNEC	0.166 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Version number: GHS 1.0

Date of compilation: 2020-10-29

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

#### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

### Appearance

Physical state	liquid	
Colour	light brown	
Odour	characteristic	

#### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	202.8 °C at 1,013 hPa
Flash point	110 °C at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	0.93 <sup>g</sup> / <sub>cm³</sub> at 20 °C
Vapour density	this information is not available



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

 Version number: GHS 1.0
 Date of compilation: 2020-10-29

 Solubility(ies)
 - Water solubility

 10,300 mg/l at 25 °C

Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	380 °C at 1,013 hPa (ECHA) (auto-ignition temperature (liquids and gases))

## Viscosity

- Kinematic viscosity	3.441 <sup>mm²</sup> / <sub>s</sub> at 20 °C	
- Dynamic viscosity	3.2 mPa s at 20 °C	
Explosive properties	none	
Oxidising properties	none	

### 9.2 Other information

Solvent content	100 %
Temperature class (EU, acc. to ATEX)	T2 (maximum permissible surface temperature on the equip- ment: 300°C)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

## 10.2 Chemical stability

See below "Conditions to avoid".

## **10.3** Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Oxidisers

#### **10.6** Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

/ersior	n number: GHS 1.0	Date of compilation: 2020-10-2
SECT	ION 11: Toxicological information	
11.1	Information on toxicological effects Classification according to GHS (1272/2008/EC, CLP)	
	Acute toxicity Shall not be classified as acutely toxic.	
	Skin corrosion/irritation Causes severe skin burns and eye damage.	
	Serious eye damage/eye irritation Causes serious eye damage.	
	Respiratory or skin sensitisation Shall not be classified as a respiratory or skin sensitiser.	
	Germ cell mutagenicity Shall not be classified as germ cell mutagenic.	
	Carcinogenicity Shall not be classified as carcinogenic.	
	Reproductive toxicity Shall not be classified as a reproductive toxicant.	
	Specific target organ toxicity - single exposure Shall not be classified as a specific target organ toxicant (single exposure).	
	Specific target organ toxicity - repeated exposure Shall not be classified as a specific target organ toxicant (repeated exposure).	
	Aspiration hazard Shall not be classified as presenting an aspiration hazard.	

## 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### Biodegradation

The substance is readily biodegradable. The relevant substances of the mixture are readily biodegradable.

## 12.2 Persistence and degradability

Process of degradability			
Process	Degradation rate	Time	
oxygen depletion	84 %	28 d	

## 12.3 Bioaccumulative potential

Data are not available.

BCF 234 – 249 (ECHA)
----------------------

### 12.4 Mobility in soil

Data are not available.



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Version number: GHS 1.0

Date of compilation: 2020-10-29

## 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECT	SECTION 14: Transport information			
14.1	UN number	2829		
14.2	UN proper shipping name	CAPROIC ACID		
14.3	Transport hazard class(es)			
	Class	8 (corrosive substances)		
14.4	Packing group	III (substance presenting low danger)		
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations		
14.6	<b>Special precautions for user</b> Provisions for dangerous goods (ADR) should be complied	within the premises.		
<ul><li><b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b></li><li>The cargo is not intended to be carried in bulk.</li><li><b>Information for each of the UN Model Regulations</b></li></ul>				
	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)			
	UN number	2829		
	Proper shipping name	CAPROIC ACID		
	Class	8		
	Classification code	C3		
	Packing group	III		
	Danger label(s)	8		
	Excepted quantities (EQ)	E1		
	Limited quantities (LQ)	5 L		



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

number: GHS 1.0	Date of compilation:	2020-
Transport category (TC)	3	
Tunnel restriction code (TRC)	E	
Hazard identification No	80	
Emergency Action Code	2X	
International Maritime Dangerous G	oods Code (IMDG)	
UN number	2829	
Proper shipping name	CAPROIC ACID	
Class	8	
Marine pollutant	-	
Packing group	III	
Danger label(s)	8	
Excepted quantities (EQ)	E1	
Limited quantities (LQ)	5 L	
EmS	F-A, S-B	
Stowage category	A	
Segregation group	1 - Acids	
International Civil Aviation Organiza	tion (ICAO-IATA/DGR)	
UN number	2829	
Proper shipping name	Caproic acid	
Class	8	
Packing group	III	
Danger label(s)	8	
Excepted quantities (EQ)	E1	
Limited quantities (LQ)	1 L	

## SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

## Deco-Paint Directive (2004/42/EC)

VOC content	100 %		
Directive on industrial emissions (VOCs, 2010/75/EU)			
VOC content	100 %		



according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Version number: GHS 1.0

Date of compilation: 2020-10-29

### **National inventories**

Country	Inventory	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## **SECTION 16: Other information**

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)



Version number: GHS 1.0

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Hexanoic acid

Date of compilation: 2020-10-29

Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.