

# SAFETY DATA SHEET



n-Heptanoic acid  
10520

Version / Revision  
Supersedes Version

2.01  
2.00\*\*\*

Revision Date  
Issuing date

27-Jan-2022  
27-Jan-2022

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

### 1.1. Product identifier

Identification of the  
substance/preparation

**n-Heptanoic acid**

Chemical Name Heptanoic acid  
CAS-No 111-14-8  
EC No. 203-838-7

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

Use of the Substance /  
Preparation Intermediate.  
Uses advised against None

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

Company/Undertaking  
Identification **OQ Chemicals Corporation**  
15375 Memorial Drive  
West Memorial Place I  
Suite 300  
Houston, TX 77079  
USA

Product Information Product Stewardship  
FAX: +49 (0)208 693 2053  
email: sc.psq@oq.com

### 1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK) available 24/7  
NCEC +1 202 464 2554  
Local emergency telephone  
number +61 2 8014 4558 (Australia)  
18000 74234 (Australia toll-free number)  
+64 9 929 1483 (New Zealand)  
0800 446 881 (New Zealand toll-free number)  
+65 3158 1195 (Sri Lanka)  
007 803 011 0293 (Indonesia toll-free number)  
+60 3 6207 4347 (Malaysia)  
001 800 120 666 751 (Thailand toll-free number)  
+65 3158 1200 (Bangladesh)  
+63 2 8231 2149 (Philippines)  
+84 28 4458 2388 (Vietnam)  
+65 3165 2217 (Singapore)  
available 24/7

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## SECTION 2: Hazards identification

### Europe

#### 2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Acute inhalation toxicity Category 4, H332  
Skin corrosion/irritation Category 1B, H314  
Serious eye damage/eye irritation Category 1, H318  
Target Organ Systemic Toxicant - Single exposure Category 3, H335

#### Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

#### 2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

#### Hazard pictograms



#### Signal word

**Danger**

#### Hazard statements

H332: Harmful if inhaled.  
H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.

#### Precautionary statements

P260: Do not breathe gas/mist/vapours.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P403 + P233: Store in a well ventilated place. Keep container tightly closed.

#### 2.3. Other hazards

Components of the product may be absorbed into the body by inhalation

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

### USA

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## 2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Acute inhalation toxicity Category 4, H332  
Skin corrosion/irritation Category 1B, H314  
Serious eye damage/eye irritation Category 1, H318  
Target Organ Systemic Toxicant - Single exposure Category 3, H335

**OSHA Specified Hazards** Not applicable.

## 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

**Hazard symbol(s)**



**Signal word**

**Danger**

**Hazard statements**

H332: Harmful if inhaled.  
H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.

**Precautionary statements**

**Prevention**

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P260: Do not breathe gas/mist/vapours.  
P271: Use only outdoors or in a well ventilated area.  
P264: Wash hands thoroughly after handling.

**Response**

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P363: Wash contaminated clothing before reuse.  
P310: Immediately call a POISON CENTER/doctor.

**Storage**

P403 + P233: Store in a well ventilated place. Keep container tightly closed.  
P405: Store locked up.

**Disposal**

P501: Dispose of contents/container in accordance with local regulation.

## 2.3. Other hazards

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Components of the product may be absorbed into the body by inhalation

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	REACH-No	1272/2008/EC	Concentration (%)
Heptanoic acid***	111-14-8	01-2119463877-21	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	> 95,5

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. Symptoms of poisoning may develop many hours after exposure. Call a physician immediately.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

#### Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

#### Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

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

#### Main symptoms

cough, headache, nausea, shortness of breath, vomiting, convulsions.

#### Special hazard

Lung irritation, Lung oedema.

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

#### General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, flush stomach and compensate acidosis.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

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## Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

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

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

## 5.3. Advice for firefighters

### Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

### Precautions for firefighting

Cool containers / tanks with water spray. Water run-off and vapor cloud may be corrosive. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

## SECTION 6: Accidental release measures

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

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

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

#### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

#### Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

### 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

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Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

## **Hygiene measures**

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

## **Advice on the protection of the environment**

See Section 8: Environmental exposure controls.

## **Incompatible products**

bases  
amines

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

### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

### **Technical measures/Storage conditions**

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 0 and 38 °C (32 and 100 °F).

### **Temperature class**

T3

## **7.3. Specific end use(s)**

Transported isolated intermediate (1907/2006)

## **SECTION 8: Exposure controls / personal protection**

### **8.1. Control parameters**

#### **Exposure limits European Union**

No exposure limits established

#### **Exposure limits Germany**

No exposure limits established.

#### **Exposure limits United States of America**

No exposure limits established regarding ACGIH, OSHA Z-1 and OSHA Z-2.

### **8.2. Exposure controls**

#### **Appropriate Engineering controls**

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

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## Personal protective equipment

### General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

### Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

### Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	nitrile rubber
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0.55 mm
<b>Break through time</b>	> 480 min

<b>Suitable material</b>	polyvinylchloride / nitrile rubber
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0.9 mm
<b>Break through time</b>	> 480 min

### Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

### Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH, EN or other applicable national standards.

### Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	pungent
<b>Odour threshold</b>	0,6 - 10,4 ppm
<b>pH</b>	4,8 @ 20 °C (68 °F)
<b>Melting point/range</b>	-8 °C
<b>Boiling point/range</b>	223 °C @ 1013 hPa
<b>Flash point</b>	117 °C @ 1013 hPa***

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**Method** DIN EN ISO 3679  
**Evaporation rate** No data available  
**Flammability (solid, gas)** Does not apply, the substance is a liquid  
**Lower explosion limit** 1,09 Vol %  
**Upper explosion limit** 10,1 Vol %

## Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
0,013	0,0013	< 0,001	20	68	OECD 104***
0,2	0,02	< 0,001	50	122	OECD 104***

**Vapour density** 4,5 (Air = 1) @ 20 °C (68 °F)

## Relative density

Values	@ °C	@ °F	Method
0,918***	20	68	

**Solubility** 1,96 - 5,32 g/l @ 25 °C, in water

**log Pow** 2,54 (calculated) KOW WIN

**Autoignition temperature** 275 °C

**Method** EU A.15

**Decomposition temperature** No data available

**Viscosity** 3,4 mPa\*s @ 30 °C

**Method** dynamic\*\*\*

**Oxidizing properties** Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

**Explosive properties** Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

## 9.2. Other information

**Molecular weight** 130,19

**Molecular formula** C7 H14 O2

**log Koc** 1,2 calculated\*\*\*

**Dissociation constant** pKa 4,75 @ 20 °C (68 °F) (calculated)\*\*\*

**Refractive index** 1,422 @ 20 °C

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid



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Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

## 10.5. Incompatible materials

bases, amines.

## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Ingestion, Inhalation, Eye contact, Skin contact

<b>Acute toxicity</b>				
<b>Heptanoic acid (111-14-8)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Inhalative	LC50	> 4,6 mg/l (4h)	rat, male/female	OECD 403

#### **Heptanoic acid\*\*\*, CAS: 111-14-8**

##### **Assessment**

The available data lead to the classification given in section 2

Dermal acute toxicity data were not determined, because of the corrosive properties of the substance

For acute oral toxicity, no data are available

<b>Irritation and corrosion</b>				
<b>Heptanoic acid (111-14-8)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	corrosive	OECD 404	
Respiratory tract***	rat***	irritating***	OECD 403***	4h***

#### **Heptanoic acid\*\*\*, CAS: 111-14-8**

##### **Assessment**

The available data lead to the classification given in section 2

Available skin corrosion data suffice for classification of eye corrosion without further testing

<b>Sensitization</b>				
<b>Heptanoic acid (111-14-8)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	

#### **Heptanoic acid\*\*\*, CAS: 111-14-8**

##### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

<b>Subacute, subchronic and prolonged toxicity</b>				
<b>Heptanoic acid (111-14-8)</b>				
Type	Dose	Species	Method	
Subacute toxicity***	NOAEL: 1750	rat, male/female***	OECD 407***	Oral***

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	mg/kg/d***			
Subacute toxicity***	LOAEL: 3500 mg/kg/d***	rat, male/female***	OECD 407***	Oral***
Subchronic toxicity***	NOAEL: 1000 mg/kg/d***	rat, male/female***	OECD 408***	Oral***

## **Heptanoic acid\*\*\*, CAS: 111-14-8**

### **Assessment**

Based on available data, the classification criteria are not met for:  
STOT RE\*\*\*

### **Carcinogenicity, Mutagenicity, Reproductive toxicity**

#### **Heptanoic acid (111-14-8)**

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study
Developmental Toxicity	NOAEL 1000 mg/kg/d	rat		OECD 414, Oral	Maternal toxicity
Developmental Toxicity	NOAEL 1000 mg/kg/d	rat		OECD 414, Oral	Teratogenicity
Mutagenicity***		human lymphocytes***	negative***	OECD 473 (Chromosomal Aberration)***	In vitro study***
Mutagenicity***		mouse lymphoma cells***	negative***	OECD 476 (Mammalian Gene Mutation)***	In vitro study***
Developmental Toxicity***	NOAEL 300 mg/kg/d***	rabbit***		OECD 414, Oral***	Maternal toxicity***
Developmental Toxicity***	NOAEL > 1000 mg/kg/d***	rabbit***		OECD 414, Oral***	Fetal toxicity, Embryotoxicity***
Reproductive toxicity***	NOAEL < 200 mg/kg/d***	rat, parental, female***		OECD 421***	Maternal toxicity***
Reproductive toxicity***	NOAEL 1000 mg/kg/d***	rat, 1. Generation, male/female***		OECD 421***	

## **Heptanoic acid\*\*\*, CAS: 111-14-8**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

Based on available data, the classification criteria are not met for:  
Reproductive toxicity  
Developmental toxicity  
Mutagenicity\*\*\*

## **Heptanoic acid\*\*\*, CAS: 111-14-8**

### **Main symptoms**

cough, headache, nausea, shortness of breath, vomiting, convulsions.

### **Target Organ Systemic Toxicant - Single exposure**

The available data lead to the classification given in section 2

### **Target Organ Systemic Toxicant - Repeated exposure**

Based on available data, the classification criteria are not met for:

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STOT RE\*\*\*

**Aspiration toxicity**

no data available

**Other adverse effects**

Components of the product may be absorbed into the body by inhalation.

**Note**

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Acute aquatic toxicity</b>			
<b>Heptanoic acid (111-14-8)</b>			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: 860 mg/l	OECD 202
Pimephales promelas (fathead minnow)	96h	LC50: > 92 mg/l	OECD 203
green algae	72h***	EC50: 61,2 mg/l (Growth rate)	OECD 201***
Pseudomonas putida	17 h	EC50: > 1000 mg/l (Growth inhibition)	DIN 38412, part 8
Daphnia magna (Water flea)***	48 h***	EC50: 72 mg/l***	OECD 203***
Oryzias latipes (Medaka)***	96 h***	LC50: 74,8 mg/l***	OECD 203***

<b>Long term toxicity</b>			
<b>Heptanoic acid (111-14-8)</b>			
Type	Species	Dose	Method
Reproductive toxicity***	Daphnia magna (Water flea)***	NOEC: 40 mg/l (21d)***	OECD 211***
Aquatic toxicity***	Pseudokirchneriella subcapitata***	NOEC: 46 mg/l (3d) Growth rate***	OECD 201***

<b>Terrestrial toxicity</b>				
<b>Heptanoic acid (111-14-8)</b>				
Species	Exposure time	Dose	Type	Method
Eisenia fetida***	56 d***	NOEC: 10 mg/kg soil dw***	Reproduction***	OECD 222***
Eisenia fetida***	28 d***	NOEC: > 32 mg/kg soil dw***	Mortality***	OECD 222***
Beta vulgaris (Sugar beet)***	21 d***	NOEC: 7,6 mg/kg soil dw***	Growth***	OECD 208***
Brassica rapa (Turnip)***	21 d***	EC10: 1,2 mg/kg soil dw***	Growth***	OECD 208***
Lactuca sativa (Lettuce)***	21 d***	EC10: 27,7 mg/kg soil dw***	Growth***	OECD 208***
Lolium perenne (Ryegrass)***	21 d***	NOEC: 7,6 mg/kg soil dw***	Growth***	OECD 208***
Soil microorganism***	28 d***	NOEC: 300 mg/kg soil dw***	Nitrogen transformation***	OECD 216***

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## 12.2. Persistence and degradability

Heptanoic acid\*\*\*, CAS: 111-14-8

### Biodegradation

98,7 % (11 d), Sewage, domestic, non-adapted, aerobic, OECD 301 A / ISO 7827.

Abiotic Degradation		
Heptanoic acid (111-14-8)		
Type	Result	Method
Hydrolysis***	not expected***	
Photolysis***	not expected***	

## 12.3. Bioaccumulative potential

Heptanoic acid (111-14-8)		
Type	Result	Method
log Pow	2,54	KOW WIN, calculated
BCF***	No data available***	

## 12.4. Mobility in soil

Heptanoic acid (111-14-8)		
Type	Result	Method
Adsorption/Desorption	log Koc: 1,2	calculated***
Surface tension***	no data available***	
Distribution to environmental compartments***	no data available***	

## 12.5. Results of PBT and vPvB assessment

Heptanoic acid\*\*\*, CAS: 111-14-8

### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

Heptanoic acid\*\*\*, CAS: 111-14-8

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

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Hazardous waste according to European Waste Catalogue (EWC)

## Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### ICAO-TI / IATA-DGR

14.1. UN number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	no data available

### IMDG

14.1. UN number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
EmS	F-A, S-B
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	
Product name	n-Heptanoic acid
Ship type	3
Pollution category	Z

### ADR/RID

14.1. UN number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
ADR Tunnel restriction code	(E)
Classification Code	C3
Hazard Number	80

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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Regulation 1272/2008, Annex VI

##### **Heptanoic acid\*\*\*, CAS: 111-14-8**

**Classification** Skin Corr. 1B; H314  
**Hazard pictograms** GHS05 Corrosion  
**Signal word** Danger  
**Hazard statements** H314

#### DI 2012/18/EU (Seveso III)

**Category** not subject

#### DI 1999/13/EC (VOC Guideline)

Component	Status
Heptanoic acid*** CAS: 111-14-8	not subject

#### International Inventories

##### **Heptanoic acid\*\*\*, CAS: 111-14-8**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2038387 (EU)  
ENCS (2)-608 (JP)  
ISHL (2)-608 (JP)  
KECI KE-18284 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)\*\*\*  
TCSI (TW)

## SECTION 16: Other information

#### **Full text of H-Statements referred to under sections 2 and 3**

H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.

#### **Abbreviations**

A table of terms and abbreviations can be found under the following link:  
[http://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r20\\_en.pdf](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

#### **Training advice**

For effective first-aid, special training / education is needed.

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## **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

## **Further information for the safety data sheet**

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage ([www.chemicals.oq.com](http://www.chemicals.oq.com)).

The annex is not required because the substance is registered as an intermediate under REACH

## **Disclaimer**

**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

**End of Safety Data Sheet**