

Trade name: Hexanum

Substance number: 155200

Version: 4 / CH

Date revised: 26.10.2020

Replaces Version: 3 / CH

Print date: 26.10.20

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

### **1.1. Product identifier**

Hexanum

Item No. 15520000

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

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification \*\*\***

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

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Repr. 2	H361fd
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Hazard statements \*\*\***

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.

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H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements \*\*\***

P201 Obtain special instructions before use.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P308+P313 IF exposed or concerned: Get medicinal advice/attention.  
 P331 Do NOT induce vomiting.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains \*\*\* Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich

**SECTION 3: Composition/information on ingredients \*\*\*****Chemical characterization**

Hexanum

**Hazardous ingredients \*\*\*****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

EINECS no.	925-292-5		
Registration no.	01-2119474209-33-XXXX		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	Asp. Tox. 1	H304	
	Skin Irrit. 2	H315	
	STOT SE 3	H336	Nervous system; Route of exposure: inhalative
	Repr. 2	H361	Testicles; Route of exposure: inhalative
	STOT RE 2	H373	Nervous system; Route of exposure: inhalative
	Aquatic Chronic 2	H411	
		EUH066	

## Concentration limits (Regulation (EC) No. 1272/2008)

Asp. Tox. 1		> 5 %
Flam. Liq. 2	H225	> 5 %
Skin Irrit. 2	H315	> 5 %
Aquatic Chronic 2	H411	> 5 %
Repr. 2		> 5 %
STOT RE 2	H373	> 5 %
STOT SE 3		> 5 %

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

Remove affected person from danger area. Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

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**After inhalation**

Ensure supply of fresh air. If necessary, give oxygen. Seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

**After ingestion**

Do not induce vomiting. Summon a doctor immediately. Rinse out mouth and give plenty of water to drink. Administer activated charcoal.

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

Dizziness, Headache, Dizziness, Unconsciousness, CNS depression, dry skin

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Extinguish greater fire with water spray or alcohol-resistant foam. Dry powder

**Non suitable extinguishing media**

Full 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); Can build mixtures of gas and air which are capable of explosion.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear full protective suit.

**Other information**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers). Advise water authority if spillage has entered water course or drainage system.

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

Clean contaminated surfaces, appropriate is: Ensure adequate ventilation. Don't rinse away with water. When picked up, treat material as prescribed under Section 13 "Disposal".

**SECTION 7: Handling and storage**

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## 7.1. Precautions for safe handling

### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air). Handle and open container with care. Avoid formation of aerosols. Transfer and handle only in enclosed systems. Keep limited supplies at workplace.

### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Keep away from sources of ignition - No smoking. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains.

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

### Requirements for storage rooms and vessels

explosion proof. Provide solvent-resistant and impermeable floor. Use steel or stainless steel containers.

### Hints on storage assembly

Do not store with oxidizing agents.

### Storage classes

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

### Further information on storage conditions

Keep container tightly closed. Keep container tightly closed, cool and dry. Protect from heat. Protect from direct sunlight.

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

### 8.1. Control parameters

#### Exposure limit values \*\*\*

##### n-hexane

List	SUVA			
Type	MAK			
Value	180	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	1440	mg/m <sup>3</sup>	400	ppm(V)

Skin resorption / sensibilisation: H; Pregnancy group: S; Remarks: H B R2F SSc; NS, Auge; NIOSH

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich

Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		
Duration of exposure	Long term		
Route of exposure	dermal		
Mode of action	Systemic effects		
Concentration	13		mg/kg/d

Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		
Duration of exposure	Long term		
Route of exposure	inhalative		
Mode of action	Systemic effects		
Concentration	93		mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)		
Reference group	Consumer		

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Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Concentration	20	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	6	mg/kg/d

## 8.2. Exposure controls

### General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Avoid contact with skin and eyes. At work do not eat, drink, smoke or take drugs. Do not inhale gases/vapours/aerosols.

### Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Full mask, filter A

### Hand protection

Gloves (solvent-resistant)  
 Appropriate Material nitrile rubber - NBR  
 Material thickness 0.35 mm  
 Breakthrough time >= 8 h  
 Gloves (solvent-resistant)  
 Appropriate Material Fluoro carbon rubber - FKM  
 Material thickness 0.4 mm  
 Breakthrough time >= 8 h  
 Not suitable: rubber gloves  
 Not suitable  
 Appropriate Material butyl  
 Not suitable: PVC gloves  
 Not suitable: leather gloves  
 Not suitable: gloves made of thick material

### Eye protection

Safety glasses with side protection shield

### Body protection

Personnel should wear protective clothing. Boots

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

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

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	paraffin-like
<b>Odour</b>	sweetish

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**pH value**

Remarks No data available

**Melting point**

Value -95 °C

**Initial boiling point and boiling range**

Value 65 to 69 °C

Method ASTM D 1078

**Flash point**

Value -27 °C

Method IP 170

**Flammability (solid, gas)**

No data available

**Vapour pressure**

Value 190 hPa

Temperature 20 °C

Value 585 hPa

Temperature 50 °C

**Density**Value 0.675 g/cm<sup>3</sup>

Temperature 15 °C

**Solubility in water**

Remarks immiscible

**Ignition temperature**

Remarks No data available

**Decomposition temperature**

Remarks No data available

**Viscosity****kinematic**Value 0.45 mm<sup>2</sup>/s

Temperature 25 °C

**9.2. Other information****Solvent content**

Value 100 %

**Other information**

Forms explosive mixture with air are possible.

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

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

Heat. Flames. Sparks

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**10.5. Incompatible materials**

Strong oxidising agents

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, Flammable gases/vapours

**SECTION 11: Toxicological information \*\*\*****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

**Acute dermal toxicity (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

Species	rabbit		
LD50	>	3350	mg/kg
Method	OECD 402		

**Acute inhalative toxicity (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

Species	rat		
LC50	>	20	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		

**Skin corrosion/irritation (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

evaluation	slightly irritant
Method	OECD 404

**Serious eye damage/irritation (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

evaluation	non-irritant
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**Sensitization (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

evaluation	non-sensitizing
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**Mutagenicity (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

evaluation	Based on available data, the classification criteria are not met.
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**Reproduction toxicity (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

evaluation	May damage fertility or the unborn child.
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**Specific Target Organ Toxicity (STOT) (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

<b>Repeated exposure</b>	
evaluation	May cause damage to organs through prolonged or repeated exposure Route of exposure inhalative Organs: Nervous system

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**Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich****Single exposure**

evaluation

May cause drowsiness or dizziness.

Route of exposure inhalative

Organs: Nervous system

**Aspiration hazard (Components)****Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich**

Harmful: may cause lung damage if swallowed.

**Experience in practice**

Causes a numb feeling.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****General information**

Toxic to aquatic life. Do not allow it to reach soil, ground water, water bodies or sewage system.

**12.2. Persistence and degradability****General information**

There is no data available on the product apart from the information given in this subsection.

**12.3. Bioaccumulative potential****General information**

There is no data available on the product apart from the information given in this subsection.

**12.4. Mobility in soil****General information**

There is no data available on the product apart from the information given in this subsection.

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

There is no data available on the product apart from the information given in this subsection.

**12.6. Other adverse effects****General information**

There is no data available on the product apart from the information given in this subsection.

**General information / ecology**

Toxic for aquatic organisms. Do not allow it to reach ground water, water bodies or sewage system.

Hazard for drinking water supplies.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code

No not dispose with rubbish.

Disposal in compliance with local and national regulations.

EWC waste code

Should not be released into the sanitary sewer system.

Recovery or recycling, if possible. Otherwise: combustion in incineration plant.

**Disposal recommendations for packaging**

Unpurified packings can contain mixtures of gas and air which are capable of explosion.

Disposal in compliance with local and national regulations.



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**SECTION 14: Transport information \*\*\***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	D/E		
14.1. UN number	1208	1208	1208
14.2. UN proper shipping name	HEXANES	HEXANES	HEXANES
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany) \*\*\***

Water Hazard Class (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

EUH066 Repeated exposure may cause skin dryness or cracking.  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2  
Asp. Tox. 1 Aspiration hazard, Category 1  
Flam. Liq. 2 Flammable liquid, Category 2  
Repr. 2 Reproductive toxicity, Category 2  
Skin Irrit. 2 Skin irritation, Category 2  
STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2  
STOT SE 3 Specific target organ toxicity - single exposure, Category 3

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### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.