

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 1 of 9

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

1.1. Product identifier

NATURAL ALCOHOL C-6 (HEXANOL)

Substance name: NATURAL ALCOHOL C-6 (HEXANOL)
 CAS No: 111-27-3

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

Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

1.3. Details of the supplier of the safety data sheet

Company name:	Axxence Aromatic GmbH	
Street:	Tackenweide 28	
Place:	D-46446 Emmerich am Rhein	
Telephone:	+ 49 2822 68561 0	Telefax: + 49 2822 68561 39
e-mail:	info@axxence.com	
Contact person:	Andreas Goertz	Telephone: + 49 2822 68561 37
e-mail:	andreas.goertz@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	QM - Regulatory Affairs	

1.4. Emergency telephone number:

+49 2822 68561 99

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

UN GHS (ST/SG/AC.10/11/Rev.8)

Hazard categories:
 Flammable liquid: Flam. Liq. 3
 Acute toxicity: Acute Tox. 4
 Acute toxicity: Acute Tox. 4
 Acute toxicity: Acute Tox. 5
 Serious eye damage/eye irritation: Eye Irrit. 2
 Hazardous to the aquatic environment: Aquatic Acute 3
 Hazard Statements:
 Flammable liquid and vapour.
 Harmful in contact with skin.
 Harmful if swallowed.
 May be harmful if inhaled.
 Causes serious eye irritation.
 Harmful to aquatic life.

2.2. Label elements

UN GHS (ST/SG/AC.10/11/Rev.8)

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 2 of 9

H302+H312	Harmful if swallowed or in contact with skin.
H319	Causes serious eye irritation.
H333	May be harmful if inhaled.
H402	Harmful to aquatic life.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P317	IF SWALLOWED: Get medical help.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P317	Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P317	IF INHALED: Get medical help.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317	If eye irritation persists: Get medical help.
P370+P378	In case of fire: Use Extinguishing powder / alcohol resistant foam / Carbon dioxide (CO2) to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to .

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C6 H14 O
Molecular weight:	102,18

Hazardous components

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.8))	
111-27-3	NATURAL ALCOHOL C-6 (HEXANOL)	100 %
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 5, Eye Irrit. 2, Aquatic Acute 3; H226 H312 H302 H333 H319 H402	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 3 of 9

After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Medical treatment necessary.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 4 of 9

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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. Suitable gloves type NBR (Nitrile rubber) + Natural fibres (e.g. cotton)
 Suitable gloves type NBR (Nitrile rubber) + Natural fibres (e.g. cotton)

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	
Melting point/freezing point:	-45 °C
Boiling point or initial boiling point and boiling range:	157 °C
Flammability	

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 5 of 9

Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	60 °C
Auto-ignition temperature:	280 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic: (at 40 °C)	3,64 mm ² /s
Water solubility: (at 20 °C)	1,3 g/L
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	1,8
Vapour pressure: (at 20 °C)	0,93 hPa
Vapour pressure: (at 50 °C)	7,9 hPa
Density (at 20 °C):	0,82 g/cm ³
Relative vapour density: (at 20 °C)	3,52

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

not explosive according to EU A.14

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:

2,98 mPa·s

(at 40 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 6 of 9

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.
Harmful in contact with skin.
May be harmful if inhaled.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-27-3	NATURAL ALCOHOL C-6 (HEXANOL)				
	oral	LD50 720 mg/kg	Rat	South African Medical Journal.	
	dermal	LD50 >1500 - <2000 mg/kg	Rabbit	REACH Registration	OECD 402
	inhalation (1 h) vapour	LC50 >71 mg/l	Rat	REACH Registration	
	inhalation dust/mist	ATE 6,25 mg/l			

Irritation and corrosivity

Causes serious eye irritation.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

Further information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
111-27-3	NATURAL ALCOHOL C-6 (HEXANOL)					
	Acute fish toxicity	LC50 97 mg/l	96 h	Pimephales promelas (fathead minnow)	REACH Registration	OECD 203
	Acute algae toxicity	ErC50 80 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50 201 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	EU Method C.2

12.2. Persistence and degradability

The product has not been tested.

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 7 of 9

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
111-27-3	NATURAL ALCOHOL C-6 (HEXANOL)			
	OECD 301 B	77,7%	28	REACH Registration
	readily biodegradable			
	OECD 301 B	76,5%	24	REACH Registration
	readily biodegradable			
	OECD 301 B	64,9%	10	REACH Registration
	readily biodegradable			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-27-3	NATURAL ALCOHOL C-6 (HEXANOL)	1,8

BCF

CAS No	Chemical name	BCF	Species	Source
111-27-3	NATURAL ALCOHOL C-6 (HEXANOL)	50		REACH registration

12.4. Mobility in soil

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Marine transport (IMDG)

14.1. UN number or ID number:	UN 2282
14.2. UN proper shipping name:	HEXANOLS
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	-
Limited quantity:	5 L
Excepted quantity:	E1

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 8 of 9

EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2282
14.2. UN proper shipping name: HEXANOLS
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
 Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LL50: Lethal loading, 50%

Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

NATURAL ALCOHOL C-6 (HEXANOL)

Revision date: 13.12.2022

Product code: 256700WW

Page 9 of 9

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.