

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### NATURAL ACETOPHENONE

Revision date: 10/04/2023

Product code: 200900US

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#### 1. Identification

##### Product identifier

NATURAL ACETOPHENONE

Substance name: NATURAL ACETOPHENONE  
 CAS No: 98-86-2

##### Recommended use of the chemical and restrictions on use

###### Use of the substance/mixture

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

##### 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:	Safety Team	Telephone: + 49 2822 68561 0
E-mail:	safety-documentation@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	Safety Management	

**Emergency phone number:** +49 2822 68561 99

#### 2. Hazard(s) identification

##### Classification of the chemical

###### **29 CFR Part 1910.1200**

Acute toxicity: Acute Tox. 4 (oral)  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Hazardous to the aquatic environment: Aquatic Acute 3

##### Label elements

###### **29 CFR Part 1910.1200**

**Signal word:** Warning

**Pictograms:**



##### **Hazard statements**

Combustible liquid  
 Harmful if swallowed  
 Causes serious eye irritation

##### **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Wash hands thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: Call a poison center/doctor if you feel unwell.  
 Rinse mouth.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

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In case of fire: Use ... to extinguish.  
Store in a well-ventilated place.  
Dispose of contents/container to Organic waste.

**Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Substances**

Sum formula: C<sub>8</sub> H<sub>8</sub> O  
Molecular weight: 120,15 g/mol

**Relevant ingredients**

CAS No	Components	Quantity
98-86-2	NATURAL ACETOPHENONE	100 %

**4. First-aid measures****Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**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.

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

No information available.

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

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Specific hazards arising from the chemical**

Non-flammable. Vapors may form explosive mixtures with air.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

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

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

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#### General advice

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes.  
Use personal protection equipment.

#### Environmental precautions

Do not allow to enter into surface water or drains.

#### 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.

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

#### Precautions for safe handling

##### Advice on safe handling

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

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

No special fire protection measures are necessary.

##### 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.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed.

##### Hints on joint storage

No special measures are necessary.

## 8. Exposure controls/personal protection

#### Control parameters

##### Exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
98-86-2	Acetophenone	10	50	TWA (8 h)	ACGIH-2024

#### Exposure controls



#### Individual protection measures, such as personal protective equipment

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#### 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: Butyl caoutchouc (butyl rubber)

#### Skin protection

Use of protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	Colourless to pale yellow	
		<b>Test method</b>
Melting point/freezing point:	20 °C	
Boiling point or initial boiling point and boiling range:	202 °C	
Flammability:	not determined	
Lower explosion limits:	1,1	
Upper explosion limits:	not determined	
Flash point:	77 °C	
Auto-ignition temperature:	535 °C	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic: (at 20 °C)	1,75 mm <sup>2</sup> /s	
Water solubility: (at 20 °C)	6,1 g/l	OECD 105
Solubility in other solvents	not determined	
Partition coefficient n-octanol/water:	1,63	
Vapor pressure: (at 20 °C)	0,4 hPa	
Vapor pressure: (at 50 °C)	2,9 hPa	
Density (at 20 °C):	1,03 g/cm <sup>3</sup>	
Relative vapour density: (at 20 °C)	4,1	
Particle characteristics:	not applicable	

### Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive. not explosive according to EU A.14

##### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate: not determined

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Solvent content:	0%
Solid content:	0%
Viscosity / dynamic: (at 20 °C)	1,80 mPa·s

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

none

### Incompatible materials

No information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
98-86-2	NATURAL ACETOPHENONE				
	oral	LD50 mg/kg 815	Rat	GESTIS	
	dermal	LD50 mg/kg 3300	Rabbit	REACH Dossier	OECD 402

#### **Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation

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

#### **Sensitizing effects**

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

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

#### **Specific target organ toxicity (STOT) - single exposure**

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

#### **Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

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**Aspiration hazard**

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

**Information on other hazards**

**Endocrine disrupting properties**

No information available.

**Other information**

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

## 12. Ecological information

**Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Endocrine disrupting properties**

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

No information available.

**Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

## 13. Disposal considerations

**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.

## 14. Transport information

**U.S. DOT 49 CFR 172.101**

**UN number or ID number:**

UN 3334

**Proper shipping name:**

AVIATION REGULATED LIQUID, N.O.S.

**Transport hazard class(es):**

9

Hazard label:

9



**Marine transport (IMDG)**

**UN number or ID number:**

UN 3334

**UN proper shipping name:**

AVIATION REGULATED LIQUID, N.O.S.

**Transport hazard class(es):**

9

**Packing group:**

-

Hazard label:

9

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Special Provisions: 960  
 Limited quantity: -  
 Excepted quantity: -  
 EmS: -

#### Air transport (ICAO-TI/IATA-DGR)

**UN number or ID number:** UN 3334  
**UN proper shipping name:** AVIATION REGULATED LIQUID, N.O.S.  
**Transport hazard class(es):** 9  
**Packing group:** III  
 Hazard label: 9



Special Provisions: A27  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y964  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 964  
 IATA-max. quantity - Passenger: 450 L  
 IATA-packing instructions - Cargo: 964  
 IATA-max. quantity - Cargo: 450 L

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

No information available.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 304 CERCLA:  
 Acetophenone (98-86-2): Reportable quantity = 5,000 (2270) lbs. (kg)  
 SARA Section 311/312 Hazards:  
 Acetophenone (98-86-2): Immediate (acute) health hazard  
 SARA Section 313 Toxic release inventory:  
 Acetophenone (98-86-2): De minimis limit = 1.0 %, Reportable threshold = Standard  
 Clean Air Act Section 112(b):  
 Acetophenone (98-86-2)

#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

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**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%  
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).

**Other data**

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.