

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 1/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



## ACETONUM

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name:	Acetone Acetonum Aceton Acétone Aceton
N° CAS:	67-64-1
N° EC:	200-662-2

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

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
------------------	--

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

Company:	FRAVER NV Keizershoek 336 2550 Kontich België
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

#### 1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance/mixture

##### Classification according to (EC) n° 1272/2008

Flammable liquids (category 2)	H225
STOT (category 3)	H319
Eye irritation (category 2)	H336
	EUH066

#### 2.2 Label elements

##### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 2/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



## ACETONUM

H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an accredited waste processing company.
Additional applicable label elements:	Not applicable.

### 2.3 Other hazards

Inhalation of vapors may cause mild irritation of mucous membranes.

Can be absorbed into the body by inhalation and through the skin.

The product can have effects: gastrointestinal tract, symptoms of poisoning, headache, nausea, dizziness and unconsciousness.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Product name:	Acetone
IUPAC name:	Propan-2-one
Synonyms:	Propanone 2-Propanone
N° CAS:	67-64-1
N° EC:	200-662-2
Molecular Formula:	C <sub>3</sub> H <sub>6</sub> O
Content:	100%

### 3.2 Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General notes:	Take off immediately all contaminated clothing. Move victim to fresh air. Keep victim warm and at rest. In case of unconsciousness, apply recovery position and seek medical attention.
After inhalation:	Remove from exposure. Keep warm and at rest and provide fresh air. Provide oxygen or artificial respiration if necessary. Get medical attention immediately.
After skin contact:	Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. Get medical attention.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 3/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



## ACETONUM

After eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Get medical attention immediately.
After ingestion:	If swallowed, seek medical advice immediately and show the container or label. DO NOT induce vomiting. Rinse mouth and take activated charcoal.

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

Not available.

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

Symptoms of poisoning can occur a few hours later. Keep under medical supervision for at least 48 hours. Artificial respiration and / or oxygen may be necessary. Danger of delayed induction of pulmonary edema.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media:	Alcohol resistant foam. Dry powder. Water spray. Carbon Dioxide.
Unsuitable extinguishing media:	Powerful water jet.

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

In case of insufficient combustion, the following can be formed: carbon monoxide, carbon dioxide, vapors can form explosive mixtures with air.

### 5.3 Advice for firefighters

Surrounding fires:	Remove all ignition sources. Cool containers / tank with water spray.
Protection against fire:	Wear self-contained breathing apparatus and protective clothing. Complete suit for protection against chemicals. Flame retardant protective clothing.
Hazardous combustion products:	Not available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel

Keep people away from and upwind of spill / leak. Use personal protective equipment.

#### For emergency responders

Keep people away from and upwind of spill / leak. Use personal protective equipment.

### 6.2 Environmental precautions

Try to stop a leak without personal risk. Should not be released into the environment. Prevent the product from entering the sewage system. Local authorities should be notified of significant spills that cannot be contained. Consider the risk of explosion.

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

Provide adequate ventilation, especially in enclosed areas. Large spills must be mechanically picked up (by pumps) for disposal.

Small amounts: Soak up with inert absorbent material. Remove all ignition sources. Only use non-sparking tools. Vapors are heavier than air and may spread along floors. Watch out for fire recoil. The product evaporates easily.

### 6.4 Reference to other sections

For personal protection see section 8.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 4/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



**MAGIS**  
PHARMA

## ACETONUM

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling:	Provide good ventilation / exhaustion at the workplace.
Personal protection:	Do not smoke.
Technical protective measures:	Keep ignition sources away - no smoking. Take measures against static electricity discharge. Protect from heat.
Handling:	Not available.

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

Storage:	Keep in a cool and dry place in tightly closed containers.
Conditions for safe storage, including any incompatibilities:	Keep tanks tightly closed.
Storage – away from:	Not available.

#### 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

TWA: 500 ppm, 1.210 mg/m<sup>3</sup>  
TGG 8 hr: 500 ppm, 1.210 mg/m<sup>3</sup>  
TGG 15 min: 1000 ppm, 2.420 mg/m<sup>3</sup>

#### 8.2 Exposure controls

##### Appropriate engineering control

Only use explosion-proof equipment. Provide adequate ventilation.

##### Individual protection measures

Eye/face protection:	Safety glasses with side shields according to EN166.
Skin protection:	Wear protective clothing when working with chemicals. Flame retardant protective clothing. Safety shoes according to EN345-347.
Hand protection:	Wear gloves in case of prolonged or repeated contact. Butyl rubber: penetration time > 480 min, glove thickness 0.5 mm. Observe the regulations regarding permeability and breakthrough time, as provided by the supplier of the gloves. Also take into account specific local conditions of use, such as cut hazard, wear and contact time. The selected protective gloves must comply with the specifications of EU directive 89/686 / EEC and the standard EN374 derived from it.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. Wear mask with AX particle filter.
Thermal hazards:	Not determined.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 5/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



**MAGIS**  
PHARMA

## ACETONUM

### Environmental exposure control

Try to stop a leak without personal risk. Should not be released into the environment. Prevent product from entering the sewage system. Local authorities should be notified of significant spills that cannot be contained. Consider the risk of explosion.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Liquid, colorless.
Odour:	Sweet, aromatic.
Odour threshold:	19.8 ppm.
pH:	7, concentration 10.00 g/L.
Melting/freezing point:	-94.7 °C.
Initial boiling point:	56 °C.
Boiling range:	Not available.
Flash point:	-17 °C.
Evaporation rate:	2.0.
Flammability (solid/gas):	Flammable.
Upper/lower flammability or explosive limits:	2.5% - 14.3% (V)
Vapour pressure:	20 °C: 240 hPa, 50 °C: 800 hPa.
Vapour density:	2.1 (20 °C).
Relative density:	0.79 (20 °C)
Solubility:	Fat soluble. Miscible with most organic solvents.
Solubility in water:	Completely soluble.
Partition coefficient (n-octanol/water):	- 0.24.
Auto-ignition temperature:	465 °C
Decomposition temperature:	Not available.
Viscosity:	0.32 mPa.s (20 °C)
Explosive properties:	Not explosive.
Oxidising properties:	Not classified as oxidizing.

### 9.2 Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Reacts with bases.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 6/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



**MAGIS**  
PHARMA

## ACETONUM

### 10.2 Chemical stability

Vapors can form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Watch out for fire recoil.

### 10.3 Possibility of hazardous reactions

No dangerous reactions have been observed under normal conditions.

### 10.4 Conditions to avoid

Keep away from heat, ignition sources. Exposure to light.

### 10.5 Incompatible materials

Can attack many plastics, rubbers and coatings. Keep away from bases, oxidizing agents and amines.

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:	Oral: LD50: 5.800 mg/kg (rat); Inhalation: LD50: 76 mg/L (4h, rat); Dermal: LD50 > 15.800 mg/kg (rabbit).
Skin corrosion/irritation:	Contact with skin may cause irritation, prolonged skin contact may defat the skin and produce dermatitis.
Serious eye damage/irritation:	Irritating to eyes.
Respiratory/skin sensitisation:	No effect known.
Germ cell mutagenicity:	In vitro and in vivo tests did not show mutagenic effects.
Carcinogenicity:	Mouse: exposure 1 yr, skin, negative.
Reproductive toxicity:	Fertility and developmental disorder studies did not show any effect on fertility.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	Liver and kidney injury can occur. The product can affect blood and bone marrow. Prolonged skin contact may defat the skin and cause dermatitis. The substance is not classified as a specific target organ toxicant, repeated exposure.
Aspiration Hazard:	No aspiration toxicity classification.
Other:	Not available.

### 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	May cause eye irritation.
Skin contact:	Can be absorbed into the body through the skin.
Inhalation:	Can be absorbed into the body by inhalation.
Ingestion:	Can cause gastrointestinal disturbances.
Aspiration:	Not available.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 7/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



## ACETONUM

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 5,540 mg / L, 96 h, static test, Fresh water; LC50 (European alver (Alburnus alburnus)): 11,000 mg / L, 96 h, static test, Sea water.

Daphnia and other aquatic invertebrates: LC50 (Daphnia pulex (water flea)): 8,800 mg / L, 48 h, static test, Fresh water; LC50 (Artemia salina): 2,100 mg / L, 24 h, static test, Sea water.

Algae: NOEC (Microcystis aeruginosa): 530 mg / L, 8 d, static test, Fresh water; NOEC (Pro-center minimum): 430 mg / l, 96 h, Sea water.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 2,212 mg / L, 28 d, Daphnia magna (Water flea), flow-through test, Fresh water.

Toxicity to bacteria: EC12 (Bacteria): 1,000 mg / L, 30 min, Respiration inhibition of activated sludge.

Ecotoxicology Assessment, Chronic aquatic toxicity: This product has no known ecotoxicological effects.

#### 12.2 Persistence and degradability

Biodegradability: Biodegradation: 91%, Method: OECD Test Guideline 301 B, Remarks: Readily biodegradable, Biodegradation: 84%, Related to: Theoretical Oxygen Demand, Test Type: Activated Sludge, Biodegradation: 100%

Stability in water: Hydrolysis: (0%)

Photodegradation: Test Type: Air, Half-life (direct photolysis): 10 d

#### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF): 3, Method: calculated, Remarks: Bioaccumulation not expected: Partition coefficient (n-octanol / water) log Kow <3

#### 12.4 Mobility in soil

High. Note: the product evaporates easily.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Other adverse effects

The product should not be allowed to enter drains, water courses or the soil.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product: Dispose of as hazardous waste in accordance with local and national regulations. Do not dispose of with household waste. List of recommended waste codes / waste designations according to Eural: 07 01 04 \* (other organic solvents, washing liquids and mother liquors)

Contaminated packaging: Dispose of as hazardous waste in accordance with local and national regulations.

### SECTION 14: TRANSPORT INFORMATION

#### Transport information according to ADR/RID/IMDG/ICAO/IATA

#### 14.1 UN Number

ADR/ RID(Land),IMDG(Sea), UN 1090

IATA/ICAO (Air) :

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 8/9



Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



## ACETONUM

<b>14.2 UN proper shipping name</b>	
ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) :	ADR: ACETON IMDG: ACETONE
<b>14.3 Transport hazard class(es)</b>	
ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) :	3
<b>14.4 Packing group</b>	
ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) :	ADR: II, 33, 3, D/E IMDG: F-E, S-D
<b>14.5 Environmental hazards</b>	
ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) :	No environmental hazards
<b>14.6 Special precautions for user</b>	
No specific instructions necessary.	
<b>14.7 Transport in bulk according to annex II of Marpol and the IBC Code</b>	
Ship type: N / A, pollution category: Z.	
<b>14.8 Additional transport information</b>	
Not available.	
<b>SECTION 15: REGULATORY INFORMATION</b>	
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture</b>	
Hazard symbol:	 
	Xi Irritant. F Flammable
Risk phrases:	R11 Highly flammable R36 Irritating to eyes R66 Repeated exposure may cause skin dryness or cracking R67 Vapours may cause drowsiness and dizziness
Safety phrases:	Not available
<b>15.2 Chemical safety assessment</b>	
Not available.	
<b>SECTION 16: OTHER INFORMATION</b>	
<b>16.1 Changes since the previous version</b>	
Not applicable.	
<b>16.2 Abbreviations and acronyms used</b>	
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)



# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 9/9

Publication: 04/01/2021

Revision: 04/01/2021

Version: 00



## ACETONUM

EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

### 16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

### 16.4 Method of classification in case of mixture

Not applicable.

### 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

### 16.6 Training advisement

Not available

### 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the FRAVER NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. FRAVER NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

### 16.8 Department issuing MSDS

Quality Department

FRAVER NV

[info@magis-pharma.be](mailto:info@magis-pharma.be)