



**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

**1.1. Product identifier**

CAS: 28940-11-6  
EC: 249-320-4  
REACH: 01-2120734453-58

Product name : CALONE© 918970  
Product code : W03003.

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

Use of the substance/mixture: Raw material used in perfumery preparations.

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

Registered company name : Firmenich Grasse SAS.  
Address : Parc Industriel Les Bois de Grasse 106 Avenue Louison Bobet.06130.GRASSE.FRANCE.  
Telephone : Tel: +33 (0)4 93 70 80 80. Fax : .  
GRS.EU.FRAGRANCE.EXPERTS@firmenich.com  
Distributor : BLH s.a.s.  
Address : ZAC du Pilon - 06460 SAINT VALLIER DE THIEY  
Tèl : 04 92 60 35 60 - Fax : 04 92 60 35 69  
Website : www.blhsas.com

**1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

**SECTION 2 : HAZARDS IDENTIFICATION**

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

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin corrosion, Category 1B (Skin Corr. 1B, H314).  
Serious eye damage, Category 1 (Eye Dam. 1, H318).  
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).  
This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.  
This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07



GHS05

Signal Word :  
DANGER

Product identifiers :  
EC 249-320-4      2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL-

Hazard statements :  
H314      Causes severe skin burns and eye damage.  
H336      May cause drowsiness or dizziness.

Precautionary statements - Prevention :  
P260      Do not breathe dust  
P261      Avoid breathing dust

Precautionary statements - Response :  
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].

Precautionary statements - Storage :

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

### 2.3. Other hazards

The substance does not fulfil the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

#### Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 28940-11-6 EC: 249-320-4 REACH: 01-2120734453-58	GHS05, GHS07 Dgr Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H336		99-100
2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL-			

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. description of first aid measures

#### In the event of exposure by inhalation :

In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

#### In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

#### In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

#### In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

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

### 5.3. Advice for firefighters

No data available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

Avoid inhaling dust.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Prevent any material from entering drains or waterways.

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

Retrieve the product by mechanical means (sweeping/vacuuming) : do not generate dust.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Provide emergency showers and eye wash stations will be required in facilities where the substance is handled constantly.

#### Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in dust.

Avoid inhaling vapors.

Avoid inhaling dust.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

#### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the substance is used.

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

No data available.

#### Storage

Keep the container tightly closed in a dry, well-ventilated place.

#### Packaging

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

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

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Avoid inhaling vapors.

Avoid inhaling dust.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149/A1.

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

## >SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### Physical state

Physical state : Powder or dust.

#### Colour

Unspecified

#### Odour

Odour threshold : Not stated.

**Melting point**

Melting point/melting range : 37.9 °C

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : 267 °C (99.59kPa)

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) Not stated.

:

Explosive properties, upper explosivity limit (%) Not stated.

:

**Flash point**

Flash Point Interval : FP &gt; 100°C.

**Auto-ignition temperature**

Self-ignition temperature : 400 °C.

**Decomposition temperature**

Decomposition point/decomposition range : Not specified.

**pH**

pH : Not relevant.

pH (aqueous solution) : Not stated.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Insoluble.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Log Kow = 1.95

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : CoA

**Relative vapour density**

Vapour density : Not stated.

**> Particle characteristics**

The substance does not contain nanoforms.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**>SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This substance is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**> 10.4. Conditions to avoid**

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

**10.5. Incompatible materials**

Keep away from :

- oxidising agents

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

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

**>SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

**11.1.1. Substances****Acute toxicity :**

2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL- (CAS: 28940-11-6)

Oral route :

LD50 &gt; 2000 mg/kg bodyweight/day

Species : Rat

OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)

**Skin corrosion/skin irritation :**

2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL- (CAS: 28940-11-6)

Effect observed : Overall irritation score

**Germ cell mutagenicity :**

2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL- (CAS: 28940-11-6)

Ames test (in vitro) :

Negative.

**11.2. Information on other hazards****> Endocrine disrupting properties**

The substance has not been evaluated as an endocrine disruptor with effects on human health.

**>SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****> 12.1.1. Substances**

2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL- (CAS: 28940-11-6)

Fish toxicity :

LC50 &gt; 100 mg/l

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 &gt; 100 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 100 mg/l

Species : Pseudokirchnerella subcapitata

Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

EC10 mg/l

Species : Pseudokirchnerella subcapitata

OECD Guideline 201 (Alga, Growth Inhibition Test)

**12.2. Persistence and degradability****12.2.1. Substances**

2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL- (CAS: 28940-11-6)  
Biodegradability : Non-rapidly degradable.

**12.3. Bioaccumulative potential****12.3.1. Substances**

2H-1,5-BENZODIOXEPIN-3(4H)-ONE, 7-METHYL- (CAS: 28940-11-6)  
Octanol/water partition coefficient : log K<sub>ow</sub> = 1.95

**12.4. Mobility in soil**

No data available.

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

No data available.

**> 12.6. Endocrine disrupting properties**

The substance has not been evaluated as an endocrine disruptor with environmental effects.

**12.7. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**>SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

**14.1. UN number or ID number**

1759

**14.2. UN proper shipping name**

UN1759=CORROSIVE SOLID, N.O.S.  
(2h-1,5-benzodioxepin-3(4h)-one, 7-methyl-)

**14.3. Transport hazard class(es)**

- Classification :



8

**14.4. Packing group**

II

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C10	II	8	80	1 kg	274	E2	2	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	8	-	II	1 kg	F-A. S-B	274	E2	Category A	-

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	II	859	15 kg	863	50 kg	A3 A803	E2
	8	-	II	Y844	5 kg	-	-	A3 A803	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

### >SECTION 15 : REGULATORY INFORMATION

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

##### > Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

##### Container information:

No data available.

##### > Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

Substance not restricted under Annex XVII of Regulation (EC) no. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

##### > Explosives precursors :

The substance is not subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

##### Particular provisions :

No data available.

#### 15.2. Chemical safety assessment

No data available.

### SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

#### Wording of the phrases mentioned in section 3 :

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

#### Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

> Modification compared to the previous version