

Firmenich

GHS Safety Data Sheet - US

According to Regulation HCS 2012

This Safety Data Sheet cancels and replaces all preceding SDS for this product.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

918970

CALONE®

© Firmenich product

CAS No: 28940-11-6
EC No: 249-320-4
REACH No: 01-2120734453-58

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

Fragrance ingredient for use in consumer products.
Not for personal use in this form or concentration.
Intended to be used in the manufacture of products for consumers

1.3 Details of the supplier of the safety data sheet

Firmenich Incorporated
250 Plainsboro Road
Princeton
New Jersey 08536
USA
Tel: +1 609 452 10 00

PSRA.Fragrance.Firinc@firmenich.com

1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 866 928 0789 (TOLL FREE) OR +1 215 207 0061.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Skin Corrosion - Cat. 1B	H314
Eye Damage - Cat.1	H318
Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects	H336

Additional information

Full text of listed statements : See section 16

2.2 Label elements

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Hazard pictograms:



Signal Word:

Danger

Hazard Statements:

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

Precautionary Statements:

P260 Do not breathe dust.
P261 Avoid breathing dust.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

2.3 Other hazards

No data available at this time.

3 COMPOSITION/INFORMATION ON INGREDIENTS

The exact percentage (concentration) of composition has been withheld as a trade secret.

3.1 Substance

Chemical substance.

Contains :

>= 99.0 <= 100.0%
2h-1,5-Benzodioxepin-3(4h)-One, 7-Methyl-
N° CAS : 0028940-11-6
N° EINECS: 249-320-4
N° EU REACH: 01-2120734453-58

GHS Classification:

Skin Corrosion - Cat. 1B [H314]
Eye Damage - Cat.1 [H318]
Specific Target Organ Toxicity - Single Exposure -
Cat. 3 Narcotic Effects [H336]

4 FIRST-AID MEASURES

4.1 Description of first aid measures

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General information:

As in all cases of potential poisoning, Obtain medical advice immediately.

In case of eye contact:

In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

In case of inhalation:

In the event of exposure to vapors, immediately remove from the area to a fresh air environment.

In case of skin contact:

Remove contaminated clothes. Wash skin with large volumes of water.

If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

In case of ingestion:

In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water.

Obtain medical advice immediately.

Do not induce vomiting, obtain medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No specific data available.

4.3 Indication of immediate medical attention and special treatment needed

No specific data available.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment.

Use standard procedures and preferred extinguishing media as stated below.

Extinguishing media: Water, foam, carbon dioxide or dry chemical.

5.2 Special hazard arising from the substance or mixture

Product is a combustible powder. Like all combustible powders, it may form explosive mixtures if suspended in air.

5.3 Advice for fire-fighters

No specific advice.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Gloves impervious to the chemical substance should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment).

Avoid skin contamination and inhalation of dust.

Individual washing routines should be followed after any potential contact.

Ensure adequate ventilation in working areas following accidental releases.

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For emergency personnel:
Apply the same recommendations as section 6.1

6.2 Environmental precautions

Do not discharge directly into drains, air, into soil or into the aquatic environment.

6.3 Methods and material for containment and cleaning up

For containment:

Small Spills can be swept up and disposed of properly.

Do not allow powder to accumulate on horizontal surfaces, as an explosive dust/air mixture could occur if suddenly dispersed into the air.

For cleaning-up:

Spillages should be disposed of in accordance with Governmental Regulations.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep strict control of dust accumulation to a minimum.

Avoid contact with skin and eyes.

Wear gloves impervious to the chemical substance and eye/face protection.

No smoking. Avoid any source of ignition. Use flameproof electrical equipment and spark-reduced tools.

Ensure that all equipments are properly bonding and earthing.

Avoid exposing to high temperature during processing.

Do not ingest or apply to the skin as such. Good personal washing routines should be followed.

Maintain adequate local and general ventilation where product is handled.

Protective measures

Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.

Advice on general occupational hygiene

Good personal washing routines should be followed.

7.2 Conditions for safe storage, including any incompatibilities

It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container.

Respect general rules for compatibility storage.

7.3 Specific end use(s)

Not available at this time.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values

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Derived No Effect Level (DNEL)

Hazard conclusion Worker (dermal), systemic effects - long-term, No hazard identified.
Hazard conclusion Worker (dermal), systemic effects - acute, Low hazard (no threshold derived) (irritation)
Hazard conclusion Worker (dermal), local effects - acute & long-term, Medium hazard (no threshold derived) (irritation)
Hazard conclusion Worker (dermal), systemic effects - long-term, No hazard identified.
Hazard conclusion Worker (dermal), systemic effects - acute, Low hazard (no threshold derived) (irritation)
Hazard conclusion Worker (dermal), local effects - acute & long-term, Medium hazard (no threshold derived) (irritation)
Hazard conclusion Worker (inhalation), systemic effects - long-term, No hazard identified.
Hazard conclusion Worker (inhalation), local effects - acute & long-term, Low hazard (no threshold derived) (irritation)
Hazard conclusion Consumer (inhalation), systemic effects - long-term, No hazard identified.
Hazard conclusion Consumer (inhalation), systemic effects - acute, Low hazard (no threshold derived) (irritation)
Hazard conclusion Consumer (inhalation), local effects - acute & long-term, Medium hazard (no threshold derived) (irritation)

Predicted No Effect Concentration (PNEC)

PNEC Aqua (freshwater) No hazard identified.
PNEC Aqua (marine water) No hazard identified.
PNEC Water (intermittent release) No hazard identified.
PNEC Sediment (freshwater) No hazard identified.
PNEC Sediment (marine water) No hazard identified.
PNEC STP No hazard identified.
PNEC Soil No hazard identified.
PNEC Air No hazard identified.
PNEC Oral (secondary poisoning) No potential for bioaccumulation

8.2 Exposure controls

Avoid exposing to high temperature during processing.
Maintain adequate local and general ventilation where product is handled.

Appropriate engineering controls

Maintain adequate local and general ventilation where product is handled and dispensed.

Environmental exposure controls

Not available at this time. Minimize release to the environment.

Personal protection

Respiratory protection: Breathing of the vapors or dust particles may be hazardous. In the absence of appropriate engineering controls such as spot ventilation, ventilated enclosures, etc., workers should avail themselves of the appropriate NIOSH approved respiratory protection. OSHA has established limits for Respirable dust (PEL of 5 mg/m³) TWA and Total dust (PEL of 15 mg/m³)TWA. It is recommended that when using powders that air monitoring of the workplace be conducted to ensure that these levels are not exceeded.

Hand protection: Gloves impervious to the chemical substance should be worn.

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Eye protection: Adequate safety glasses should be used.

Skin protection: Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance :	CRYSTALLINE POWDER
Colour :	WHITE
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not applicable
Melting point/range (°C) :	= 37.9 °C (OECD 102)
Initial boiling point/range (°C) :	= 267 °C at 99.59kPa (OECD 103)
Flash point (closed cup) :	> 212 Fahrenheit (> 100 Centigrade)
Evaporation rate :	Not available
Flammability (solid/gas) :	Not applicable
Explosive properties (St class) :	N/A
Vapor pressure (At 20°C in mm Hg) :	< 0.1 mm
Vapour density :	Not available
Relative density (d 20/20) :	= 1.353 at 21.6°C (OECD 109)
Water solubility (20°C) :	= 13700 mg/l at 20°C (OECD 105)
Partition coef. (n-octanol/water) :	Log Kow = 1.95 (OECD 117)
Auto-ignition temperature (°C) :	Data on analogue - = 400 °C at 101.79 to 102.18kPa (Method A15)
Decomposition temperature :	Not available
Viscosity :	Not available
Oxidizing properties :	Not available

9.2 Other safety information

9.2.1 Explosive properties (Measured)

No data available at this time.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No reaction known with water.

10.2 Chemical stability

Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Avoid temperatures above or near to the flash point. Not pyrophoric nor reactive with water. Does not undergo explosive decomposition, is shock stable, and is not an oxygen donor. Does not form explosive mixtures with other organic materials. Will not undergo hazardous exothermic polymerization.

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10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids.
Do not heat closed containers.
Avoid contact with oxidizing agents.

10.5 Incompatible materials

Avoid strong oxidizing agents.

10.6 Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) acute toxicity

Acute oral toxicity (Rat, OECD 420, Gavage): LD50 > 2000 mg/kg

(b) skin corrosion/irritation

In vitro Skin Corrosion - Human skin model (EpiDerm, OECD 431): Corrosive
In vitro Skin irritation (EpiSkin, OECD 439): Irritant

(c) serious eye damage/irritation

No data available

(d) respiratory or skin sensitisation

Local Lymph Node Assay (LLNA) OECD 429: Non-sensitising to skin
Skin sensitization Antioxidant Response Element (ARE) assay (Human): Non-sensitising to skin

(e) germ cell mutagenicity

Bacterial Reverse Mutation test (Ames) (Salmonella + E. Coli, OECD 471, With and without S9, 5 strains): Non mutagenic

In vitro mammalian cell gene mutation test (Mouse, L5178Y cells, OECD 476, TK6 assay): Non mutagenic

Data on analogue - In vitro Mammalian Chromosome Aberration Test (Human, OECD 473): No chromosomal aberration

(f) carcinogenicity

No data available

(g) reproductive toxicity

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Combined Repeat. Dose Tox. & Reprod./Develop. Tox. Screening (Rat, OECD 422, Dietary, => 5 weeks):

NOEL (reproduction) = 791 - 1768 mg/kg/day
NOAEL = 791 - 887 mg/kg/day
NOAEL (development) = 791 - 1768 mg/kg/day

(h) STOT-single exposure
No data available

(i) STOT-repeated exposure
No data available

(j) aspiration hazard
No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Alga, Growth Inhibition Test (Pseudokirchneriella subcapitata, OECD 201, Static):

72 h ErC10 = 83.54 mg/l (Based on nominal concentration)
72 h ErC50 > 100 mg/l (Based on nominal concentration)

Daphnia sp. Acute Immobilisation Test (OECD 202, Static): 48h EC50 > 100 mg/l (Based on nominal concentrations)

Fish, Acute Toxicity Test (Zebra fish, OECD 203, Semi-static): 96h LC50 > 100 mg/l (Based on nominal concentration)

12.2 Persistence and degradability

Ready Biodegradation - Manometric Respirometry Test (OECD 301F, Sludge): Non readily biodegradable (7% in 28 day(s))

12.3 Bioaccumulative potential

Log Kow = 1.95 (OECD 117)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Product: The product should be handled according to the instructions given under sections 6, 7 and 8. Dispose of according to local or national regulations. The product should not be allowed to enter drains or the environment.

Contaminated packaging: Empty packaging should be disposed according to local or national regulations by an approved waste handling

14 TRANSPORT INFORMATION

In case of accidental spillage or fire during transport, refer to instructions given under points 5, 6, 7 and 8 above.

UNO

UN-No: 1759
Proper Shipping Name: Corrosive solid, n.o.s. (CALONE)
Class: 8
Packing Group: II

Land transport (ADR/RID)

UN-No: 1759
Proper Shipping Name: CORROSIVE SOLID, N.O.S. (CALONE)
Class: 8
Packing group: II

Sea transport (IMDG-Code)

UN-No: 1759
Proper Shipping Name: CORROSIVE SOLID, N.O.S. (CALONE)
Class: 8
Packing group: II

Air transport (ICAO-IATA)

UN-No: 1759
Proper Shipping Name: Corrosive solid, n.o.s. (CALONE)
Class: 8
Packing group: II

15 REGULATORY INFORMATION

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

This chemical is NOT subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 29 CFR Part 1910.1200.

15.2 Chemical Safety Assessment

No data available at this time.

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16 OTHER INFORMATION

Revisions

March-2021 : Version 10.1 - Updates to sections 1, 2, 3 ,8 ,9, 11, 12, 14, 15, 16
September-2021: Version 10.2 - SNUR added

Key literature references

RIFM database
OECD SIDS
EU IUCLID
Supplier information

Full text of phrases used under section 2

H314	Causes severe skin burns and eye damage.
H336	May cause drowsiness or dizziness.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Full text of phrases used under section 3

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Firmenich, it is the user's obligation to determine conditions of safe use of the product.

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