

# 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

**922560**

CETALOX® 922560

© Firmenich product

CAS No: 3738-00-9

EC No:

REACH No: 01-2119976315-31

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

Ingredient for use in products that may be ingested and/or fragrance ingredient for use in consumer product.

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

GRS.Flavor.NAM@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

Not Classified according to the rules of the HCS 2012.

#### Additional information

Full text of listed statements : See section 16

#### 2.2 Label elements

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

### 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.

## **4 FIRST-AID MEASURES**

### 4.1 Description of first aid measures

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 advise immediately.

Do not induce vomiting, obtain medical advise 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**

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

### 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.

None.

### 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.

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.

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

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

### **Derived No Effect Level (DNEL)**

Worker (dermal), No hazard identified.  
Worker (inhalation), No hazard identified.  
Consumer (oral), No hazard identified.  
Consumer (inhalation), No hazard identified.  
Consumer (dermal), No hazard identified.

### **Predicted No Effect Concentration (PNEC)**

PNEC Aqua (freshwater) = 8.8 µg/l  
PNEC Aqua (marine water) = 0.88 µg/l  
PNEC Sediment (freshwater) = 4.652 mg/kg sediment dw  
PNEC Sediment (marine water) = 0.465 mg/kg sediment dw  
PNEC STP = 10 mg/l  
PNEC Soil = 0.925 mg/kg soil dw  
PNEC Air No hazard identified.  
PNEC Oral (secondary poisoning) = 53.33 mg/kg food

### 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.

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

### 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/m<sup>3</sup>) TWA and Total dust (PEL of 15 mg/m<sup>3</sup>)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.

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 SOLID
Colour :	WHITE
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not applicable
Melting point/range (°C) :	= 80 °C (OECD 102)
Initial boiling point/range (°C) :	= 324 °C at 99.4kPa (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) :	= 1.081 at 20°C (OECD 109)
Water solubility (20°C) :	= 1.88 mg/l at 20°C (OECD 105)
Partition coef. (n-octanol/water) :	Log Kow = 5.09 (OECD 123)
Auto-ignition temperature (°C) :	Not available
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

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

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.

### 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  
Data on analogue - Acute dermal toxicity (Rabbit, Occlusive): LD50 > 2000 mg/kg

#### (b) skin corrosion/irritation

In vitro Skin irritation (EpiSkin, OECD 439): Non irritant

#### (c) serious eye damage/irritation

Data on analogue - Acute Eye irritation (Rabbit, OECD 405, No washout): Non irritant

#### (d) respiratory or skin sensitisation

Local Lymph Node Assay (LLNA) OECD 429: 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 (Chinese hamster, OECD 476, With and without S9): Non mutagenic  
In vitro Mammalian Chromosome Aberration Test (Chinese hamster, OECD 473): No chromosomal aberration

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

(f) carcinogenicity  
No data available

(g) reproductive toxicity  
Combined Repeat. Dose Tox. & Reprod./Develop. Tox. Screening (Rat, OECD 422, Gavage, 28 day(s)):  
NOAEL = 800 mg/kg/day  
NOAEL (fertility) = 800 mg/kg/day  
NOAEL (development) = 800 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 ErC50 > 1.4 mg/l (Based on average measured concentrations)

72 NOEC > 1.4 mg/l (Based on average measured concentrations)

Daphnia sp. Acute Immobilisation Test (OECD 202, Static): 48 EL50 > 1.8 mg/l (Based on average measured concentrations)

Fish, Acute Toxicity Test (Zebra fish, OECD 203, Static): 96 LC50 > 0.51 mg/l (Based on average measured concentrations)

Activated Sludge, Respiration Inhibition Test (OECD 209, Static): 3 EC50 > 100 mg/l

QSAR - Daphnia magna Reproduction Test ( 21 day(s)): EC10 = 0.088 mg/l

QSAR - Fish, Early-Life Stage Toxicity Test (QSAR-OECD210, 32 day(s)): EC10 = 0.1 mg/l

### 12.2 Persistence and degradability

Ready Biodegradation - Manometric Respirometry Test (OECD 301F, Sludge): Readily biodegradable (80 - 93% in 28 day(s))

### 12.3 Bioaccumulative potential

Bioconcentration, Flow-through Fish Test (OECD 305, Rainbow trout (Oncorhynchus Mykiss)): BCF = 560 L/kg,

Log Kow = 5.09 (OECD 123)

### 12.4 Mobility in soil

Adsorption coefficient (OECD 121): Log Koc = 3.72

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

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**

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:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing Group:	---

#### Land transport (ADR/RID)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

#### Sea transport (IMDG-Code)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

#### Air transport (ICAO-IATA)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

### **15 REGULATORY INFORMATION**



# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

---

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

---

### 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.

## **16 OTHER INFORMATION**

### Revisions

February-2022 : Version 11 - Updates to sections 1, 2, 3 ,8 ,9, 11, 12, 14, 15, 16

### Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

### Full text of phrases used under section 2

-

**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.**

**Information contained in this document and related material is proprietary to Firmenich. Disclosure to third parties without the prior written consent of Firmenich except where required by applicable laws and regulations and/or reverse engineering are strictly prohibited.**