

# 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

**987090**

TETRADECALACTONE DELTA

© Firmenich product

CAS No: 2721-22-4

EC No: 220-334-2

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

Ingredient for use in products that may be ingested.  
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

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### 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**

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### 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: Foam, carbon dioxide or dry chemical.

### 5.2 Special hazard arising from the substance or mixture

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 vapour.  
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 wiped up with a cloth or paper. Standard absorbents can be used (saw dust, sand, vermiculite). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water.

For cleaning-up:  
Spillages should be disposed of in accordance with Governmental Regulations.

## **7 HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.  
Wear gloves impervious to the chemical substance and eye/face protection.  
No smoking. Avoid any sources of ignition.  
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

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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)**

No data available

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

No data available

### 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: None required; avoid breathing vapors.  
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 :  
Colour :

LIQUID  
COLOURLESS TO VERY PALE YELLOW

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Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not available
Melting point/range (°C) :	Not available
Initial boiling point/range (°C) :	Not available
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) :	0.934 - 0.94
Water solubility (20°C) :	Not available
Partition coef. (n-octanol/water) :	Not available
Auto-ignition temperature (°C) :	Not available
Decomposition temperature :	Not available
Viscosity :	Not available
Explosive properties :	Not available
Oxidizing properties :	Not available

### 9.2 Other safety information

None

## **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.

### 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.

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### **11 TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

(a) acute toxicity  
No data available

(b) skin corrosion/irritation  
No data available

(c) serious eye damage/irritation  
No data available

(d) respiratory or skin sensitisation  
No data available

(e) germ cell mutagenicity  
No data available

(f) carcinogenicity  
No data available

(g) reproductive toxicity  
No data available

(h) STOT-single exposure  
No data available

(i) STOT-repeated exposure  
No data available

(j) aspiration hazard  
No data available

### **12 ECOLOGICAL INFORMATION**

This product has not been subjected to full ecotoxicological testing.

12.1 Toxicity  
No data available

12.2 Persistence and degradability  
No data available

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### 12.3 Bioaccumulative potential

No data available

### 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**

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)

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

### **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.

### **16 OTHER INFORMATION**

#### Revisions

March-2021 : Version 10.1 - 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

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**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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