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

050001 C25323 N&A FL(SPICED ALMOND TOFFEE TYP) © Firmenich product

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

Mr. Thomas Sulich Firmenich Inc. P.O. Box 5880 Princeton - New Jersey 08543 - USA thomas.sulich@firmenich.com Tel.:+1.609.452.10.00 - Fax.:+1.609.275.72.38

1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL CHEMTREC @ 1-800-424-9300 or 1-703-527-3887.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Skin Sensitization - Cat. 1H317WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALSUSH99IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE.7

Additional information

Full text of listed statements : See section 16

2.2 Label elements

Hazard pictograms:

According to Regulation HCS 2012

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



Signal Word: Warning

Hazard Statements: H317

May cause an allergic skin reaction.

Precautionary Statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

2.3 Other hazards

WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE. No data available at this time.

<u>3 COMPOSITION/INFORMATION ON INGREDIENTS</u>

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

3.2 Mixture

Mixture of aromatic substances.

Contains :

>= 7.5 < 10.0%	Classification:	 Not Classified
Benzaldehyde, 3-Ethoxy-	GHS Classifica	tion:
4-Hydroxy-	Eye Irritation	- Cat.2B [H320]
N° ČAS : 0000121-32-4		
N° EINECS: 204-464-7		

>= 5.0 < 7.5%	Classification: Xn - R22
4h-Pyran-4-One, 2-	GHS Classification:
Ethyl-3-Hydroxy-	Acute Toxicity (oral) - Cat. 4 [H302]
N° ĆAS : 0004940-11-8 N° EINECS: 225-582-5	

According to Regulation HCS 2012

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

>=2.5 < 5.0% 2-Butanone, 3-Hydroxy- N° CAS : 0000513-86-0 N° EINECS: 208-174-1	Classification: - R10 GHS Classification: Flammable Liquid - Cat. 3 [H226] WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE. [USH997]
>= 1.0 < 2.5% 2-Propenal, 3-Phenyl- N° CAS : 0000104-55-2 N° EINECS: 203-213-9	Classification: Xn - R21,R38,R43 GHS Classification: Skin Sensitization - Cat. 1A [H317] Acute Toxicity (dermal) - Cat. 4 [H312] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319]
>= 0.5 < 1.0% 2,3-Pentanedione N° CAS : 0000600-14-6 N° EINECS: 209-984-8	Classification: F Xn - R11,R41,R43,R48/20 GHS Classification: Eye Damage - Cat.1 [H318] Specific Target Organ Toxicity - Repeated Exposure - Cat. 2 [H373] Skin Sensitization - Cat. 1B [H317] Flammable Liquid - Cat. 2 [H225] WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE. [USH997]

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. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. Obtain medical advice immediately.

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.

<u>4.2 Most important symptoms and effects, both acute and delayed</u> No information available on the product itself.

Reference : US 14188451

According to Regulation HCS 2012

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

 $\frac{4.3 \text{ Indication of immediate medical attention and special treatment needed}}{\text{None known}}$

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: 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:

Adequate protective gloves 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 adequate protective gloves protection 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.

According to Regulation HCS 2012

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

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 generals rules for compatibility storage.

7.3 Specific end use(s)

Not available at this time.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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.

Hand protection: Adequate Protective Gloves 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 :	
Odour :	

LIQUID YELLOW Characteristic strong odour according to the commercial description of the substance.

According to Regulation HCS 2012

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

pH : Melting point/range (°C) : Initial boiling point/range (°C) : Flash point (closed cup) : Evaporation rate : Flammability (solid/gas) : Upper/lower flammability or explosive	Not available Not available Not available > 142 Fahrenheit (> 61 Centigrade) Not available Not available
limits :	
Vapor pressure (At 20°C in mm Hg)	
Calculated vapor pressure (At 20°C	0.8
in mm Hg):	0.0
Vapour density :	Not available
Relative density (d 20/20) :	1.044 - 1.092
Water solubility (20°C) :	Not applicable
Partition coef. (n-octanol/water) :	Not applicable
Auto-ignition temperature (°C):	Not available
Decomposition temperature :	Not available
Viscosity :	Not available
Explosive properties :	Not available
Oxidizing properties :	Not available
VOC Content less than:	9%

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.

11 TOXICOLOGICAL INFORMATION

According to Regulation HCS 2012

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

This mixture has not been subjected to toxicological testing as an entity. According to available data on the constituents the health classification criteria are met.

12 ECOLOGICAL INFORMATION

This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are not met.

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: Drange Chinging Name:	Not regulated
Proper Shipping Name: Class:	N/A
Packing group:	

According to Regulation HCS 2012

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

15 REGULATORY INFORMATION

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

NFPA Hazard Classification	
Health:	2
Flammability:	2
Reactivity:	0

This mixture contains no toxic chemical or chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendements 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

01-Dec-2010: Version 6.1 - First version validated for publication 04-May-2012: Version 6.2 - Updates to sections 1, 2, 3, 8.3, 11, 12, 16. 20-Apr-2013: Version 6.3 - Updates to sections 1, 2, 3, 8.1, 14, 16. 07-July-2014: Version 6.4- Updates to section 2, 3, 14, 16. 30-May-2015: Version 6.5- Updates to section 2, 3, 7, 8, 9,13,14,16

Key literature references RIFM database OECD SIDS EU IUCLID Supplier information

Full text of phrases used under section 2

S24	Avoid contact with skin.
S37	Wear suitable gloves.
H317 USH997	May cause an allergic skin reaction. WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

Full text of phrases used under section 3

According to Regulation HCS 2012

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
USH997	WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.

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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