According to Regulation (EC) No 1907/2006 (as amended)

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 106966 NATURAL & ARTIFICIAL FLAVOR (COOKIE NUT YPE) © Firmenich product

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

Concentrated aromatic raw material. Not for personal use in this form or concentration. For manufacturing use only.

1.3 Details of the supplier of the safety data sheet

Colin McIntosh, PhD; Chemist Firmenich Inc. P.O. Box 5880 Princeton - New Jersey 08543 - USA colin.mcintosh@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

2.1.1 Classification according to Regulation (EC) Nº 1272/2008 [CLP/GHS]

Flammable Liquid - Cat. 3	H226
Skin Sensitization - Cat. 1	H317
WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS	USH99
IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE.	7

2.1.2 Classification according to 67/548/EEC or 1999/45/EC

Symbols:

Xi

Flammable
Irritant

Risks Phrases:	
R10	Flammable.
R43	May cause sensitization by skin contact.

2.1.3 Additional information

Full text of R- and S-phrases: see section 16

According to Regulation (EC) No 1907/2006 (as amended)

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

2.2 Label elements

Hazard pictograms:



Signal Word: Warning

Hazard Statements:

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.

Precautionary Statements:

-	· · · · · · · · · · · · · · · · · · ·	
P	210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P	235	Keep cool.
P	240	Ground/bond container and receiving equipment.
P	241	Use rated explosion-proof electrical equipment.
P	242	Use only non-sparking tools.
P	243	Take precautionary measures against static discharge.

Hazard Inducers:

Benzaldehyde, 4-Hydroxy-3-Methoxy-2-Propenal, 3-Phenyl-2-Butanone, 3-Hydroxy-Butanal, 3-Methyl-

2.3 Other hazards

WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE MAY LEAD TO SEVERE LUNG DAMAGE.

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

Mixture of aromatic substances.

Contains :

According to Regulation (EC) No 1907/2006 (as amended)

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

7.5 - 10.0%	Benzaldehyde, 4-hydroxy-3-methoxy- N° CAS : 0000121-33-5 / N° EINECS: 204-465-2 Classification: Xi - R43 GHS Classification: Skin Sensitization - Cat. 1
7.5 - 10.0%	benzyl alcohol N° CAS : 0000100-51-6 / N° EINECS: 202-859-9 Classification: Xn - R20/22 GHS Classification: Acute Toxicity (oral) - Cat. 4
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: Acute Toxicity (dermal) - Cat. 4 Eye Irritation - Cat.2 Skin Irritation - Cat. 2 Skin Sensitization - Cat. 1
1.0 - 2.5%	4H-Pyran-4-one, 2-ethyl-3-hydroxy- N° CAS : 0004940-11-8 / N° EINECS: 225-582-5 Classification: Xn - R22 GHS Classification: Acute Toxicity (oral) - Cat. 4

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.

According to Regulation (EC) No 1907/2006 (as amended)

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

- 4.2 Most important symptoms and effects, both acute and delayed No information available on the product itself.
- 4.3 Indication of immediate medical attention and special treatment needed 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. Cool fire exposed containers with water spray. Extinguishing media: Foam, carbon dioxide or dry chemical.

5.2 Special hazard arising from the substance or mixture

Closed containers may build up pressure if exposed to heat (fire). Vapors form explosive mixtures with air and may travel to a source of ignition and flash back.

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.

Vapors may cause vomiting and nausea. Wear appropriate respiratory protection.

WARNING: This compound contains one or more chemicals that may auto-oxidize. Rags used to wipe up spills, or activated carbon used to absorb vapors of this compound, may spontaneously ignite (auto-oxidation) if improperly disposed of. Dispose of all waste material in water filled containers.

For cleaning-up:

Spillages should be disposed of in accordance with Governmental Regulations.

According to Regulation (EC) No 1907/2006 (as amended)

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

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.

7.1.1 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.

7.1.2 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

0000100-51-6 : Benzyl Alcohol (All forms) AIHA Workplace Environmental Exposure Levels (1999-JAN) TWA (1999-JAN) : 10 ppm , 8 hours (All forms)

8.2 Exposure controls

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

8.2.1 Appropriate engineering controls

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

8.2.2 Environmental exposure controls

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

8.3 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. Eve protection: Adequate safety glasses should be used.

According to Regulation (EC) No 1907/2006 (as amended)

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

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 BROWN TO DARK BROWN Characteristic strong odour according to the commercial description of the substance.
pH : Melting point/range (°C) : Initial boiling point/range (°C) : Flash point (closed cup) : Evaporation rate : Flammability (solid/gas) : Upper/lower flammability or explosive limits : Vapor pressure (At 20°C in mm Hg)	Not available Not available Not available = 106 Fahrenheit (= 41 Centigrade) Not available Not available Not available
Calculated vapor pressure (At 20°C in mm Hg):	18.5
Vapour density : Relative density (d 20/20) : Water solubility (20°C) : Partition coef. (n-octanol/water) : Auto-ignition temperature (°C): Decomposition temperature : Viscosity : Explosive properties : Oxidizing properties : VOC Content less than:	Not available 1.007 - 1.055 Not applicable Not applicable Not available Not available Not available Not available Not available 21%

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

According to Regulation (EC) No 1907/2006 (as amended)

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

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

This preparation has not been subjected to toxicological testing as an entity but has been blended from materials with established toxicological bibliographies. In view of the difficulty of using current standard toxicological evaluation techniques to predict potential hazards to susceptible individuals or arising from unforeseeable potentiation, this preparation should be considered and handled as if it displayed health hazards and treated in consequence with all possible precaution.

12 ECOLOGICAL INFORMATION

This preparation has not been subjected to ecotoxicological testing as an entity. In view of the difficulty of using current standard ecotoxicological evaluation techniques to predict the impact of particular modes of release on vulnerable or localised parts of the ecosystem, this preparation should be considered and handled as if it displayed potential environmental hazards, and treated in consequence with all possible precaution.

13 DISPOSAL CONSIDERATIONS

Empty all containers using a two stage pumping system or draining until no free liquid remains Minimize release to the environment.

14 TRANSPORT INFORMATION

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

14.1 UNO

UN-No:	1197
Proper Shipping Name:	EXTRACTS, FLAVOURING, LIQUID
Class:	3
Packing Group:	111

14.2 Land transport (ADR/RID)

UN-No:	1197
Proper Shipping Name:	EXTRACTS, FLAVOURING, LIQUID
Class:	3
Packing group:	III

14.3 Sea transport (IMDG-Code)

According to Regulation (EC) No 1907/2006 (as amended)

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

UN-No:1197Proper Shipping Name:EXTRACTS, FLAVOURING, LIQUIDClass:3Packing group:III

14.4 Air transport (ICAO-IATA)

UN-No:	1197
Proper Shipping Name:	EXTRACTS, FLAVOURING, LIQUID
Class:	3
Packing group:	III

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

16.1 Revisions

01-Dec-2010: Version 1.0 - First version validated for publication

16.2 Key literature references

RIFM database OECD SIDS EU IUCLID Supplier information

16.3 Risk & Safety Phrases used under section 2

R10	Flammable.
R43	May cause sensitization by skin contact.
S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S37	Wear suitable gloves.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P235	Keep cool.

According to Regulation (EC) No 1907/2006 (as amended)

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

Ground/bond container and receiving equipment.
Use rated explosion-proof electrical equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use appropriate fire extinguishers for fire control.
Store in a well-ventilated place. Keep container tightly closed.

16.4 Risk Phrases used under section 3

R20/22	Harmful by inhalation and if swallowed.
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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