

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

599905 AH

BUBBLE GUM FLAVOR

© 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

Flammable Liquid - Cat. 3	H226
Acute Toxicity (oral) - Cat. 4	H302
Skin Sensitization - Cat. 1	H317
Eye Irritation - Cat.2A	H319
Specific Target Organ Toxicity - Single Exposure - Cat. 3 Respiratory Irritation	H335

Additional information

Full text of listed statements: See section 16

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2.2 Label elements

Reference: US

Hazard pictograms:

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Signal Word:

Warning

Hazard Statements:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. Causes serious eye irritation. H319 May cause respiratory irritation. H335

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray. P261

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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

2.3 Other hazards

CAUTION: THIS MATERIAL CONTAINS VOLATILE FLAVORING CHEMICALS IDENTIFIED IN THE FEMA "RESPIRATORY HEALTH AND SAFETY MANUFACTURING WORKPLACE" DOCUMENT. No data available at this time.

3 COMPOSITION/INFORMATION ON INGREDIENTS

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

3.2 Mixture

Mixture of aromatic substances.

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Contains:

Reference: US

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>= 40.0 < 50.0% GHS Classification:

Benzaldehyde Acute Toxicity (oral) - Cat. 4 [H302] N° CAS: 0000100-52-7 Acute Toxicity (inhalation) - Cat. 4 [H332]

N° EINECS: 202-860-4 Specific Target Organ Toxicity - Single Exposure - Cat. 3 Respiratory Irritation

[H335]

Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0% GHS Classification:

N-Butyl Acetate Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects

N° CAS: 0000123-86-4 [H336]

N° EINECS: 204-658-1 Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0% GHS Classification:

Isopentyl Acetate Flammable Liquid - Cat. 3 [H226]

N° CAS: 0000123-92-2 N° EINECS: 204-662-3

N° CAS: 0000121-33-5 N° EINECS: 204-465-2

>=2.5 < 5.0% GHS Classification:

Benzaldehyde, 4-Eye Irritation - Cat.2A [H319] Hydroxy-3-Methoxy-

GHS Classification: >= 1.0 < 2.5%

Ethyl Acetate Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects

N° CAS: 0000141-78-6 [H336]

Eye Irritation - Cat.2A [H319] N° EINECS: 205-500-4 Flammable Liquid - Cat. 2 [H225]

GHS Classification: >= 1.0 < 2.5%

Phenol, 2-Methoxy-4-(2-

Propenyl)-

N° CAS: 0000097-53-0 N° EINECS: 202-589-1

Skin Sensitization - Cat. 1B [H317] Eye Irritation - Cat.2A [H319]

>= 0.5 < 1.0% GHS Classification:

2-Furancarboxylic Acid,

Acute Toxicity (oral) - Cat. 3 [H301] Methyl Ester Flammable Liquid - Cat. 4 [H227]

N° CAS: 0000611-13-2 N° EINECS: 210-254-6

4 FIRST-AID MEASURES

Reference: US

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. 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.

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).

5.3 Advice for fire-fighters

No specific advice.

Reference: US

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

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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.

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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 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.

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.

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.

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

Reference: US

0000100-52-7: Benzaldehyde (All forms)

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American Industrial Hygiene Association (AIHA) - Workplace Environmental Exposure Levels (WEEL) (1999-JAN)

STEL (1999-JAN): 4 ppm, 15 minutes (All forms)

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TWA (1999-JAN): 2 ppm, 8 hours (All forms) 0000141-78-6: ETHYL ACETATE (All forms) National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL) (2010-SEP) TWA (1994-JUN): 400 ppm, 10 hours (All forms) TWA (1994-JUN): 1400 mg/m3, 10 hours (All forms) 0000141-78-6 : Ethyl acetate (All forms) American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV) (2012-MAR) TWA (1996-MAY): 400 ppm, 8 hours (All forms) TWA (1996-MAY): 1440 mg/m3, 8 hours (All forms) 0000141-78-6 : Ethyl acetate (All forms) Occupational Safety and Health Administration (OSHA) (29 CFR 1910.1000 Z-1-A) - Permissible Exposure Limits - 1989 vacated values (1989-MAR) TWA (1989-MAR): 400 ppm, 8 hours (All forms) TWA (1989-MAR): 1400 mg/m3, 8 hours (All forms) 0000141-78-6 : Ethyl acetate (All forms) Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 to 1910.1048 - Substance-Specific Standards (1993-JUN) TWA (1993-JUN): 400 ppm, 8 hours (All forms) TWA (1993-JUN): 1400 mg/m3, 8 hours (All forms) 0000123-92-2: ISOAMYL ACETATE (All forms) National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL) (2010-SEP) TWA (1994-JUN): 100 ppm, 10 hours (All forms) TWA (1994-JUN): 525 mg/m3, 10 hours (All forms) 0000123-92-2: Isoamyl acetate (All forms) American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV) (2000-MAR) STEL (2000-MAR): 100 ppm, 15 minutes (All forms) TWA (2000-MAR): 50 ppm, 8 hours (All forms) 0000123-92-2 : Isoamyl acetate (All forms) Occupational Safety and Health Administration (OSHA) (29 CFR 1910.1000 Z-1-A) - Permissible Exposure Limits - 1989 vacated values (1989-MAR) TWA (1989-MAR): 100 ppm, 8 hours (All forms) TWA (1989-MAR): 525 mg/m3, 8 hours (All forms) 0000123-92-2 : Isomyl acetate (All forms) Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 to 1910.1048 - Substance-Specific Standards (1993-JUN) TWA (1993-JUN): 100 ppm, 8 hours (All forms) TWA (1993-JUN): 525 mg/m3, 8 hours (All forms)

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0000121-33-5 : Vanillin (All forms)

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Reference: US



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American Industrial Hygiene Association (AIHA) - Workplace Environmental Exposure Levels (WEEL) (2009-JAN)

TWA (2009-JAN): 10 mg/m3, 8 hours (All forms)

0000123-86-4: n-BUTYL ACETATE (All forms)

National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL) (2010-SEP)

STEL (1994-JUN): 200 ppm , 15 minutes (All forms) STEL (1994-JUN): 950 mg/m3 , 15 minutes (All forms) TWA (1994-JUN): 150 ppm , 10 hours (All forms) TWA (1994-JUN): 710 mg/m3 , 10 hours (All forms)

0000123-86-4 : n-Butyl acetate (All forms)

American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV) (1996-MAY)

STEL (1998-SEP) : 200 ppm , 15 minutes (All forms) TWA (1998-SEP) : 150 ppm , 8 hours (All forms)

0000123-86-4 : n-Butyl-acetate (All forms)

Occupational Safety and Health Administration (OSHA) (29 CFR 1910.1000 Z-1-A) - Permissible Exposure Limits - 1989 vacated values (1989-MAR)

STEL (1989-MAR): 200 ppm, 15 minutes (All forms)
STEL (1989-MAR): 950 mg/m3, 15 minutes (All forms)
TWA (1989-MAR): 150 ppm, 8 hours (All forms)
TWA (1989-MAR): 710 mg/m3, 8 hours (All forms)

TVVV (1000 WV (LV) : 7 TO MIG/MO ; O MOGRO (7 III 10

0000123-86-4: n-Butyl-acetate (All forms)
Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 to 1910.1048 - Substance-Specific Standards (1993-JUN)

TWA (1993-JUN): 150 ppm, 8 hours (All forms) TWA (1993-JUN): 710 mg/m3, 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.

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.

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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: LIQUID

COLOURLESS TO PALE YELLOW Colour:

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): = 117 Fahrenheit (= 47 Centigrade)

Evaporation rate: Not available Flammability (solid/gas): Not available

Upper/lower flammability or explosive

Vapor pressure (At 20°C in mm Hg)

Calculated vapor pressure (At 20°C 4.6

in mm Hg):

Vapour density: Not available Relative density (d 20/20): 0.979 - 0.999 Water solubility (20°C): Not applicable Not applicable Partition coef. (n-octanol/water): Not available Auto-ignition temperature (°C): Decomposition temperature: Not available Viscosity: Not available Explosive properties: Not available Oxidizing properties: Not available

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.

Reference: US

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.

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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 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: 1197

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Packing Group: III

Land transport (ADR/RID)

UN-No: 1197

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Packing group: III

Sea transport (IMDG-Code)

UN-No: 1197

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class:

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Packing group: III

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:

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

13-June-2016: Version 6.6 Updates to sections 2, 3, 16

02-Aug-2016: Version 6.7 - Updates to Sections 9, 15, 16

Key literature references

RIFM database

OECD SIDS

EU IUCLID

Supplier information

Full text of phrases used under section 2

H220	Flammable liquid and vapour.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P240 Ground/bond container and receiving equipment.

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P270	Do no eat, drink or smoke when using this product.
P241	Use rated explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use appropriate fire extinguishers for fire control.

P330 Rinse mouth.

Reference: US

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Wash contaminated clothing before reuse. P363

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up. Keep cool. P235

If eye irritation persists: P337

Full text of phrases used under section 3

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H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

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.

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