

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

052681 T

ARTIFICIAL APPLE 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

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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
Acute Toxicity (dermal) - Cat. 4	H312
Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	H317
Eye Damage - Cat.1	H318
Specific Target Organ Toxicity - Single Exposure - Cat. 3 Respiratory Irritation	H335
Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects	H336
Environmental Hazard (chronic) - Cat. 3	H412

Additional information

Full text of listed statements: See section 16

2.2 Label elements

Hazard pictograms:

Revised on : 30-May-2015 / v 6.5
Reference : US 14230966 Date of printing : 11-MAR-2016

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Signal Word:

Danger

Hazard Statements:

H318 Causes serious eye damage. H226 Flammable liquid and vapour.

H302+H312 Harmful if swallowed or in contact with skin.

Causes skin irritation. H315

May cause an allergic skin reaction. H317

May cause respiratory irritation, and drowsiness or dizziness. H335+H336

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

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. Avoid release to the environment. P273

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

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

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:

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>= 30.0 < 40.0% Classification: Xn - R22,R37/38,R41,R67,R10

Butanol GHS Classification:

N° CAS : 0000071-36-3 Eye Damage - Cat.1 [H318]

N° EINECS: 200-751-6 Acute Toxicity (oral) - Cat. 4 [H302]

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

[H336]

Specific Target Organ Toxicity - Single Exposure - Cat. 3 Respiratory Irritation

[H335]

Skin Irritation - Cat. 2 [H315] Flammable Liquid - Cat. 3 [H226]

>= 15.0 < 20.0% Classification: Xn - R21/22,R36/38

Hexan-1-OI GHS Classification:

N° CAS: 0000111-27-3 Acute Toxicity (oral) - Cat. 4 [H302] N° EINECS: 203-852-3 Acute Toxicity (dermal) - Cat. 4 [H312]

> Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 3 [H226]

>= 10.0 < 15.0% Classification: Xn N - R43,R51/53,R21/22

2-Hexenal, (E)- GHS Classification:

N° CAS : 0006728-26-3 Acute Toxicity (dermal) - Cat. 3 [H311]
N° EINECS: 229-778-1 Skin Sensitization - Cat. 1B [H317]
Acute Toxicity (oral) - Cat. 4 [H302]

Environmental Hazard (chronic) - Cat. 2 [H411]

Flammable Liquid - Cat. 3 [H226]

>= 10.0 < 15.0% Classification: Xi - R37,R41,R10

Ethyl Lactate GHS Classification:

N° CAS: 0000097-64-3 Eye Damage - Cat.1 [H318]

N° EINECS: 202-598-0 Specific Target Organ Toxicity - Single Exposure - Cat. 3 Respiratory Irritation

[H335]

Flammable Liquid - Cat. 3 [H226]

>= 5.0 < 7.5% Classification: Xi - R36,R10

Hexanal GHS Classification:

N° CAS : 0000066-25-1 Eye Irritation - Cat.2A [H319] N° EINECS: 200-624-5 Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0% Classification: - R67,R10

N-Butyl Acetate GHS Classification:

N° CAS: 0000123-86-4 Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects

N° EINECS: 204-658-1 [H336]

Reference: US

Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0% Classification: N - R10,R51/53

Acetic Acid, Hexyl Ester GHS Classification:

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N° CAS: 0000142-92-7 Environmental Hazard (chronic) - Cat. 2 [H411]

N° EINECS: 205-572-7 Flammable Liquid - Cat. 3 [H226]

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Classification: Xi - R38,R10 >= 1.0 < 2.5%

GHS Classification: Butanoic Acid, 3-Methyl-,

Ethyl Ester Skin Irritation - Cat. 2 [H315]

N° CAS: 0000108-64-5 Flammable Liquid - Cat. 3 [H226]

N° EINECS: 203-602-3

0 < 0.1%Classification: Xi N - R43,R51/53

2-Buten-1-One, 1-GHS Classification:

Skin Sensitization - Cat. 1A [H317] (2,6,6-Trimethyl-1,3-

Cyclohexadien-1-YI)-Environmental Hazard (chronic) - Cat. 2 [H411]

N° CAS: 0023696-85-7 N° EINECS: 245-833-2

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.

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.

Reference: US

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.

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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).

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:

Eliminate all sources of ignition. Leaking containers should be removed to a well ventilated area if possible to do safely. If not, dike around container to limit spread of spill, leak. If spill/leak is small, clean up with standard absorbents (sand, vermiculite, etc.). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water. See Section VI above. If large leak/spill, call HAZMAT Team.

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.

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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

Reference: US

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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 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

```
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)
 0000071-36-3: n-BUTYL ALCOHE (All forms)
 National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL)
(2010-SEP)
   CEIL (1994-JUN): 50 ppm, (All forms)
   CEIL (1994-JUN): 150 mg/m3, (All forms)
 0000071-36-3: n-Butanol (All forms)
 American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(1994-SEP)
   TWA (2002-JAN): 20 ppm, 8 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)
 0000071-36-3 : n-Butyl alcohol (All forms)
 Occupational Safety and Health Administration (OSHA) (29 CFR 1910.1000 Z-1-A) - Permissible Exposure
Limits - 1989 vacated values (1989-MAR)
   CEIL (1989-MAR): 50 ppm, (All forms)
   CEIL (1989-MAR): 150 mg/m3, (All forms)
 0000071-36-3 : n-Butyl alcohol (All forms)
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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): 300 mg/m3, 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)

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)

0000111-27-3 : n-Hexyl Alcohol (All forms)

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

(2011-OCT)

TWA (2011-OCT): 40 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.

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

Reference: US

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

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9.1 Information on basic physical and chemical properties

Appearance: CLEAR LIQUID Colour: COLOURLESS

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Odour: Characteristic strong odour

according to the commercial description of the substance.

pH: Not available Not available Melting point/range (°C): Initial boiling point/range (°C): Not available

= 90 Fahrenheit (= 32 Centigrade) Flash point (closed cup):

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

Upper/lower flammability or explosive

limits:

Vapor pressure (At 20°C in mm Hg)

Calculated vapor pressure (At 20°C 6.2

in mm Hg):

Not available Vapour density: 0.852 - 0.862 Relative density (d 20/20): Water solubility (20°C): Not applicable Partition coef. (n-octanol/water): Not applicable Not available Auto-ignition temperature (°C): Decomposition temperature: Not available Viscosity: Not available Explosive properties: Not available Oxidizing properties: Not available

VOC Content less than: 100%

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.

10.5 Incompatible materials

Avoid strong oxidizing agents.

10.6 Hazardous decomposition products

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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 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

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Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Packing group: III

Air transport (ICAO-IATA)

Reference: US

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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: 3 Reactivity: 0

This mixture contains a 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 1910.1200.

31.0% Alcohols

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

Reference: US

Supplier information

Full text of phrases used under section 2

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe vapour. S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instructions/Safety data

sheets.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
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.
P273	Avoid release to the environment.
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.
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.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P391	Collect spillage.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P235	Keep cool.
Full toyt of phrases uses	

Full text of phrases used under section 3

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Reference: US

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.

R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed. R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

Reference: US

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R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R67 Vapours may cause drowsiness and 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.

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