

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

502526 T5

ARTIFICIAL COLA CHAMPAGNE FLAVOR

© 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) N° 1272/2008 [CLP/GHS]

Flammable Liquid - Cat. 2

Skin Sensitization - Cat. 1

Eye Irritation - Cat.2

Environmental Hazard (chronic) - Cat. 2

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

H225

H317

H319

H411

USH99

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

Symbols:

F Highly flammable

Xi Irritant

N Dangerous for the environment

Risks Phrases:

R11 Highly flammable.

R43 May cause sensitization by skin contact.

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

aquatic environment.

2.1.3 Additional information

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

2.2 Label elements

Hazard pictograms:







Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. Causes serious eye irritation. H319

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

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

P235 Keep cool.

P240 Ground/bond container and receiving equipment. P241 Use rated explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

Hazard Inducers:

Isobutyl Acetate **Ethyl Acetate** Isopentyl Acetate

Limonene

2.3 Other hazards

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of aromatic substances.

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Contains:

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20.0 - 30.0%	Benzaldehyde, 4-hydroxy-3-methoxy- N° CAS: 0000121-33-5 / N° EINECS: 204-465-2 Classification: Xi - R43 GHS Classification: Skin Sensitization - Cat. 1
10.0 - 15.0%	ethyl acetate N° CAS: 0000141-78-6 / N° EINECS: 205-500-4 Classification: F Xi - R36,R67,R66,R11 GHS Classification: Eye Irritation - Cat.2 Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects
2.5 - 5.0%	2-Butanone, 4-(4-hydroxyphenyl)- N° CAS: 0005471-51-2 / N° EINECS: 226-806-4 Classification: Xn - R22 GHS Classification: Acute Toxicity (oral) - Cat. 4
1.0 - 2.5%	limonene N° CAS: 0000138-86-3 / N° EINECS: 205-341-0 Classification: Xn N - R38,R43,R50/53,R65,R10 GHS Classification: Skin Irritation - Cat. 2 Skin Sensitization - Cat. 1 Environmental Hazard (acute) - Cat. 1 Environmental Hazard (chronic) - Cat. 1
1.0 - 2.5%	2,6-Octadien-1-ol, 3,7-dimethyl-, acetate, (E)- N° CAS: 0000105-87-3 / N° EINECS: 203-341-5 Classification: N - R51/53 GHS Classification: Environmental Hazard (chronic) - Cat. 2
0.1 - 0.5%	2(3H)-Furanone, 5-heptyldihydro- N° CAS: 0000104-67-6 / N° EINECS: 203-225-4 Classification: N - R51/53 GHS Classification:
0.1 - 0.5%	6-Octen-1-ol, 3,7-dimethyl- N° CAS: 0000106-22-9 / N° EINECS: 203-375-0 Classification: Xi N - R38,R43,R51/53 GHS Classification: Skin Irritation - Cat. 2 Skin Sensitization - Cat. 1

4 FIRST-AID MEASURES

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). 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.

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:

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.

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.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eves.

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

US

Reference:

0000141-78-6: ETHYL ACETATE (All forms)

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NIOSH Recommended Exposure Limits (1994-JUN) 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) ACGIH Threshold Limit Values (1996-MAY)

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)

OSHA Permissible Exposure Limits (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)

OSHA Permissible Exposure Limits, Table Z-1 Limits for Air Contaminants (1993-JUN)

TWA (1993-JUN): 400 ppm, 8 hours (All forms) TWA (1993-JUN): 1400 mg/m3, 8 hours (All forms)

0000138-86-3: d-Limonene (All forms)

AIHA Workplace Environmental Exposure Levels (1999-JAN)

TWA (1999-JAN): 30 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.

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: FLUID AND LIMPID LIQUID

Colour: PALE YELLOW

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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

= 52 Fahrenheit (= 11 Centigrade) Flash point (closed cup):

Evaporation rate: Not available Flammability (solid/gas): Not available Upper/lower flammability or explosive Not available

limits:

Vapor pressure (At 20°C in mm Hg)

Calculated vapor pressure (At 20°C 27.5

in mm Hg):

Vapour density: Not available Relative density (d 20/20): 0.973 - 0.993 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: 57%

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:

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

US

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 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

Reference:

US

UN-No:

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Packing Group: Ш

Hazardous to the Environment

14.2 Land transport (ADR/RID)

UN-No: 1197

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID (VAPOUR PRESSURE AT 50°C MORE

THAN 110 KPA)

Class: 3 Ш Packing group:

14.3 Sea transport (IMDG-Code)

UN-No:

6256446

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Ш Packing group:

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14.4 Air transport (ICAO-IATA)

UN-No: 1197

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Packing group: II

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 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

R11

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

R43 R51/53	May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S16	Keep away from sources of ignition - No smoking.

310	Reep away from sources of ignition - No since
S24	Avoid contact with skin.
_	

Highly flammable.

S37 Wear suitable gloves.

Use appropriate container to avoid environmental contamination.

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

sheets.

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

P235 Keep cool.

P240 Ground/bond container and receiving equipment.

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P241 Use rated explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 If eye irritation persists:

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use appropriate fire extinguishers for fire control.

P391 Collect spillage.

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

16.4 Risk Phrases used under section 3

Reference:

US

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R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
D 40	May aguas agasti-ati

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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

aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

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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