

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

057395 A

ARTIFICIAL RASPBERRY 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. 2	H225
Acute Toxicity (oral) - Cat. 4	H302
Eye Damage - Cat.1	H318
Carcinogenicity - Cat. 2	H351

Additional information

Full text of listed statements: See section 16

2.2 Label elements

Reference: US

Hazard pictograms:

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Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapour. H318 Causes serious eye damage.

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

Precautionary Statements:

P201 Obtain special instructions before use.

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

P264 Wash thoroughly after handling.

P202 Do not handle until all safety precautions have been read and understood.

P240 Ground/bond container and receiving equipment.
P270 Do no eat, drink or smoke when using this product.

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 - R20/22,R36

Benzyl Alcohol GHS Classification:

Eye Irritation - Cat.2A [H319]

>= 7.5 < 10.0% Classification: Xn - R22 2-Butanone, 4-(4- GHS Classification:

Hydroxyphenyl)-

N° CAS : 0005471-51-2 N° EINECS: 226-806-4 Acute Toxicity (oral) - Cat. 4 [H302]

>=2.5 < 5.0% Classification: F+ Xn - R36/37,R40,R12

Acetaldehyde GHS Classification:

N° CAS : 0000075-07-0 Carcinogenicity - Cat. 2 [H351]

N° EINECS: 200-836-8 Specific Target Organ Toxicity - Single Exposure - Cat. 3 Respiratory Irritation

[H335]

Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 1 [H224]

>=2.5 < 5.0% Classification: Xn - R22 4h-Pyran-4-One, 2- GHS Classification:

Ethyl-3-Hydroxy-N° CAS: 0004940-11-8 N° EINECS: 225-582-5 Acute Toxicity (oral) - Cat. 4 [H302]

>=2.5 < 5.0% Classification: F Xn - R11,R20/22,R36/37

Formic Acid, Ethyl Ester GHS Classification:

N° CAS : 0000109-94-4 Acute Toxicity (oral) - Cat. 4 [H302] N° EINECS: 203-721-0 Acute Toxicity (inhalation) - Cat. 4 [H332]

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

[H335]

Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 2 [H225]

>=2.5 < 5.0% Classification: F Xn - R11,R20/22,R36/37

Ethyl Formate GHS Classification:

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

[H335]

Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 2 [H225]

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Classification: C - R35,R10 >= 1.0 < 2.5%

GHS Classification: Acetic Acid

Skin Corrosion - Cat. 1A [H314] N° CAS: 0000064-19-7 N° EINECS: 200-580-7 Eye Damage - Cat.1 [H318] Flammable Liquid - Cat. 3 [H226]

Classification: C - R34 >= 1.0 < 2.5% Propionic Acid **GHS** Classification:

N° CAS: 0000079-09-4 Skin Corrosion - Cat. 1B [H314] N° EINECS: 201-176-3 Eye Damage - Cat.1 [H318]

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

[H335]

Flammable Liquid - Cat. 3 [H226]

Classification: Xi - R36 >= 1.0 < 2.5%Benzaldehyde, 4-GHS Classification:

Hydroxy-3-Methoxy-N° CAS: 0000121-33-5 N° EINECS: 204-465-2

Eye Irritation - Cat.2A [H319]

Classification: F Xi - R36,R67,R11 >= 1.0 < 2.5%

Ethyl Acetate **GHS Classification:**

N° CAS: 0000141-78-6 Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects

N° EINECS: 205-500-4 [H336]

> Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 2 [H225]

Classification: N - R51/53 >= 1.0 < 2.5% 3-Buten-2-One, 4-GHS Classification:

(2,6,6-Trimethyl-1-Environmental Hazard (chronic) - Cat. 2 [H411] Cyclohexen-1-YI)-

N° CAS: 0014901-07-6 N° EINECS: 238-969-9

Classification: Xi - R38.R41 >= 1.0 < 2.5%

Propanoic Acid, 2-GHS Classification:

Hydroxy-Eye Damage - Cat.1 [H318] N° CAS: 0000050-21-5 Skin Irritation - Cat. 2 [H315] N° EINECS: 200-018-0

Classification: Xi - R43 >= 0.1 < 0.5% 2-Buten-1-One, 1-GHS Classification:

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

Cyclohexen-1-YI)-, (2e)-N° CAS: 0023726-91-2 N° EINECS: 245-842-1

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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.

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult or labored, give oxygen by qualified personnel. Call for emergency response team.

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).

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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.

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

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.

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

0000064-19-7 : ACETIC ACID (All forms)

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```
National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL)
(2010-SEP)
   STEL (1994-JUN): 15 ppm, 15 minutes (All forms)
   STEL (1994-JUN): 37 mg/m3, 15 minutes (All forms)
   TWA (1994-JUN): 10 ppm, 10 hours (All forms)
   TWA (1994-JUN): 25 mg/m3, 10 hours (All forms)
 0000075-07-0: Acetaldehyde (All forms)
 American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(1994-SEP)
    C (2012-MAR): 25 ppm, (All forms)
   C (1994-SEP): 45 mg/m3, (All forms)
 0000075-07-0: Acetaldehyde (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): 150 ppm, 15 minutes (All forms)
   STEL (1989-MAR): 270 mg/m3, 15 minutes (All forms)
   TWA (1989-MAR): 100 ppm, 8 hours (All forms)
   TWA (1989-MAR): 180 mg/m3, 8 hours (All forms)
 0000075-07-0: Acetaldehyde (All forms)
 Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 to 1910.1048 - Substance-
Specific Standards (1993-JUN)
   TWA (1993-JUN): 200 ppm . 8 hours (All forms)
   TWA (1993-JUN): 360 mg/m3, 8 hours (All forms)
 0000064-19-7 : Acetic acid (All forms)
 American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(1994-SEP)
   STEL (1994-SEP): 15 ppm, 15 minutes (All forms)
   STEL (1994-SEP): 37 mg/m3, 15 minutes (All forms)
   TWA (1994-SEP): 10 ppm, 8 hours (All forms)
   TWA (1994-SEP): 25 mg/m3, 8 hours (All forms)
 0000064-19-7 : Acetic acid (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): 10 ppm, 8 hours (All forms)
   TWA (1989-MAR): 25 mg/m3, 8 hours (All forms)
 0000064-19-7 : Acetic acid (All forms)
 Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 to 1910.1048 - Substance-
Specific Standards (1993-JUN)
   TWA (1993-JUN): 10 ppm, 8 hours (All forms)
   TWA (1993-JUN): 25 mg/m3, 8 hours (All forms)
 0000100-51-6 : Benzyl Alcohol (All forms)
 American Industrial Hygiene Association (AIHA) - Workplace Environmental Exposure Levels (WEEL)
(1999-JAN)
   TWA (1999-JAN): 10 ppm, 8 hours (All forms)
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```
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)
 0000109-94-4 : ETHYL FORMATE (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): 300 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)
 0000109-94-4 : Ethyl formate (All forms)
 American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(2012-MAR)
   STEL (2012-MAR): 100 ppm, 15 minutes (All forms)
   TWA (1994-SEP): 100 ppm, 8 hours (All forms)
   TWA (1994-SEP): 303 mg/m3, 8 hours (All forms)
 0000109-94-4 : Ethyl formate (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): 300 mg/m3, 8 hours (All forms)
 0000109-94-4 : Ethyl formate (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): 300 mg/m3, 8 hours (All forms)
 0000079-09-4: PROPIONIC ACID (All forms)
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National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL) (2010-SEP)

STEL (1994-JUN): 15 ppm, 15 minutes (All forms) STEL (1994-JUN): 45 mg/m3, 15 minutes (All forms) TWA (1994-JUN): 10 ppm, 10 hours (All forms) TWA (1994-JUN): 30 mg/m3, 10 hours (All forms)

0000079-09-4 : Propionic acid (All forms)

American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV) (1994-SEP)

TWA (1994-SEP): 10 ppm, 8 hours (All forms) TWA (1994-SEP): 30 mg/m3, 8 hours (All forms)

0000079-09-4: Propionic acid (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): 10 ppm, 8 hours (All forms) TWA (1989-MAR): 30 mg/m3, 8 hours (All forms)

0000121-33-5 : Vanillin (All forms)

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

TWA (2009-JAN): 10 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

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 : LIQUID

Colour: COLOURLESS TO PALE BROWN

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Odour: Characteristic strong odour

> according to the commercial description of the substance.

pH: Not available Melting point/range (°C): Not available > 40°C Initial boiling point/range (°C):

Flash point (closed cup): = 54 Fahrenheit (= 12 Centigrade)

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 146.4

in mm Hg):

Vapour density: Not available Relative density (d 20/20): 1.039 - 1.049 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: 22%

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 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: II

Land transport (ADR/RID)

UN-No: 1197

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

THAN 110 KPA)

Class: 3 Packing group: II

Sea transport (IMDG-Code)

UN-No: 1197

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Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: 3 Packing group: II

Air transport (ICAO-IATA)

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UN-No: 1197

Proper Shipping Name: EXTRACTS, FLAVOURING, LIQUID

Class: Packing group: Ш

15 REGULATORY INFORMATION

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

NFPA Hazard Classification

Health: 2 3 Flammability: 0 Reactivity:

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.

5.5% Acetaldehyde,

CAS# 75-07-0,

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. S25 Avoid contact with eyes.

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

medical advice.

S36/37 Wear suitable protective clothing and gloves.

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

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H318 Causes serious eye damage.

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H351 Suspected of causing cancer /\$#GHS_ROE#\$/.

Obtain special instructions before use. P201

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

P264 Wash thoroughly after handling.

P202 Do not handle until all safety precautions have been read and understood.

P240 Ground/bond container and receiving equipment. P270 Do no eat, drink or smoke when using this product. P281 Use personal protective equipment as required. 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. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301+P310 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.

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

IF exposed or concerned: Get medical advice/attention. P308+P313

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

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

P405 Store locked up. P235 Keep cool.

Full text of phrases used under section 3

H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

May cause respiratory irritation. H335 May cause drowsiness or dizziness. H336 H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

R10 Flammable. R11 Highly flammable. Extremely flammable. R12

R20/22 Harmful by inhalation and if swallowed.

Harmful if swallowed. R22

R34 Causes burns.

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Reference: US

R35 Causes severe burns.

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R36 Irritating to eyes.

R36/37 Irritating to eyes and respiratory system.

R38 Irritating to skin.

Reference: US

14241881

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

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

aquatic environment.

R52 Harmful to aquatic organisms.

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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Revised on: 30-May-2015 / v 6.5 Date of printing: 15-MAR-2016

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