dsm-firmenich

GHS Safety Data Sheet

According to Regulation (EC) no 2020/878

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

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

943787
STRAWBERRY SFE
dsm-firmenich product

EU Specific Identifiers:

Strawberry, Fragaria ananassa, ext.

Other Identifiers:

CAS No: 1175540-74-5

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

Fragrance ingredient for use in consumer products.
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

Firmenich & Cie SAS
41-43, rue de Villiers
92200 Neuilly-sur-Seine
FRANCE
Tel: +33 1 40 88 73 42

P&B.RA.EU@dsm-firmenich.com

1.4 Emergency telephone number

+44 1235 239 670 Available 24/7 (NCEC)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 [CLP/GHS] as amended

Flammable Liquid - Cat. 3	H226
Eye Irritation - Cat.2	H319

Additional information

Full text of listed statements : See section 16

2.2 Label elements

Hazard pictograms:





Signal Word:
Warning

Hazard Statements:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

Precautionary Statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P264	Wash thoroughly after handling.
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.
P337+P313	If eye irritation persists: Get medical advice/attention.

Hazard Inducers:

2.3 Other hazards

Ecological information:
According to Annex XIII of REACH Regulation, the substance/mixture contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

The substance/mixture contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or in accordance with the criteria set out in Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

Toxicological information:

The substance/mixture contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Natural product.

Contains :
50.0 - 60.0%
EU Specific Identifiers:
EC CAS: 0000064-17-5
Ethanol
N° EC: 200-578-6
N° Index : 603-002-00-5

GHS Classification:
Eye Irritation - Cat.2 [H319]
Flammable Liquid - Cat. 2 [H225]

0 < 0.1%
EU Specific Identifiers:
EC CAS: 0003658-77-3
3(2h)-Furanone, 4-Hydroxy-2,5-Dimethyl-
N° EC: 222-908-8

Skin Corrosion - Cat. 1B [H314]
Eye Damage - Cat.1 [H318]
Skin Sensitization - Cat. 1A [H317]
Acute Toxicity (oral) - Cat. 4 [H302]

SCL/M-factor/ATE:

EC CAS 0003658-77-3 ATE (oral): 1608 mg/kg bw

EC CAS 0000064-17-5 H319 (Cat. 2): C >= 50%

SECTION 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:
Irrigate copiously with water for at least 10 minutes. Obtain medical advice if any irritation or evidence of tissue damage persists.

In case of inhalation:
Remove the individual to fresh air and keep at rest. 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:

Rinse mouth with water. Obtain medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed
No specific data available.

4.3 Indication of immediate medical attention and special treatment needed
No specific data available.

SECTION 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.

5.2 Special hazard arising from the substance or mixture
No specific hazard known.

5.3 Advice for fire-fighters
No specific advice.

SECTION 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:
Any absorbent used for cleaning up spillage should be disposed promptly,accordingly to local regulation.
Gross spillages should be contained by any means, and disposal of this should be in accordance with Government Regulations.

For cleaning-up:
Spillages should be disposed of in accordance with Governmental Regulations.

SECTION 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

0000064-17-5 : Alcool éthylique
France INRS Data
French Short Term Limit (VLE): 5000 ppm
French Short Term Limit (VLE): 9500 mg/m3
French Time Weighted Average (VME): 1000 ppm
French Time Weighted Average (VME): 1900 mg/m3

Derived No Effect Level (DNEL)
DNEL Worker (dermal), systemic effects - long-term, = 267 mg/kg bw/day

Predicted No Effect Concentration (PNEC)
No data available

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: Where ventilation (LEV) is inadequate to prevent any inhalation of substances, use adequate respiratory apparatus.

Hand protection: Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals. Preferred glove barrier materials: Neoprene and Nitrile. When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. Thickness > or = 0,2mm.
NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical form:	LIQUID
Colour :	COLOURLESS TO PALE YELLOW
Odour :	Characteristic strong odour according to the commercial description of the substance.
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	> 40°C
Flammability:	Flammable
Lower and upper explosion limit:	Not determined
Flash point:	= 25°C
Auto-ignition temperature (°C) :	Not determined
Decomposition temperature :	No decomposition if stored and applied as directed.
pH:	Not determined
Kinematic viscosity:	Not determined
Water solubility (20°C) :	Not determined
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure (Pa) :	Not determined
Density and/or relative density:	0.85 - 0.89
Relative vapour density:	Not determined
Particle characteristics:	Not applicable, the product is a liquid

9.2 Other information

9.2.1. Information with regard to physical hazard classes
None

9.2.2. Other safety characteristics
None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No reaction known with water.

10.2 Chemical stability
Good stability at standard temperature.

10.3 Possibility of hazardous reactions
Not known.

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
Not known.

10.6 Hazardous decomposition products
Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) acute toxicity
Acute oral toxicity (Rat, OECD 401): LD50 = 10470 mg/kg (CAS# 64-17-5)

(b) skin corrosion/irritation
Primary Skin irritation (Rabbit, OECD 404, Occlusive): Non irritant (CAS# 64-17-5)

(c) serious eye damage/irritation
Acute Eye irritation (Rabbit, OECD 405): Irritant (CAS# 64-17-5)

(d) respiratory or skin sensitisation
Skin sensitization : Non-sensitising to skin (Conclusion of weight of evidence based on 3 studies (CAS# 64-17-5))

(e) germ cell mutagenicity
Bacterial Reverse Mutation test (Ames) (Salmonella, OECD 471, With and without S9, 7 strains): Non mutagenic (Conclusion of weight of evidence based on 9 studies (CAS# 64-17-5))

(f) carcinogenicity
No data available

(g) reproductive toxicity
No data available

(h) STOT-single exposure
No data available

(i) STOT-repeated exposure
No data available

(j) aspiration hazard
No data available

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
The substance/mixture contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

11.2.2 Other information
No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Alga, Growth Inhibition Test (Chlorella vulgaris, OECD 201, Static):
72h ErC50 = 275 mg/l (Freshwater (CAS# 64-17-5))
72h ErC10 = 11.5 mg/l (Freshwater (CAS# 64-17-5))
Daphnia sp. Acute Immobilisation Test and Reproduction Test (Static): 48h LC50 = 5012 mg/l (Based on average measured concentrations (CAS# 64-17-5))

12.2 Persistence and degradability
Biodegradation assessment : Readily biodegradable (Conclusion of weight of evidence based on 5 studies (CAS# 64-17-5))

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment
According to Annex XIII of REACH Regulation, the substance/mixture contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

12.6 Endocrine disrupting properties
The substance/mixture contains no constituent considered to have endocrine disrupting properties according to REACH Article 59(1) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects
No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of as special waste in compliance with local and national regulations. Do not dump into any sewers, on the ground, or into any body of water.

Contaminated packaging: for used, contaminated and residual materials additional evaluations may be required.

European waste disposal number: No waste code from the European waste catalog can be assigned to this product, because only the use made by the user allows this attribution. The waste code is established in consultation with waste disposal services.

SECTION 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

14.1 UN-No:	1170
14.2 Proper Shipping Name:	ETHANOL SOLUTION
14.3 Class:	3
14.4 Packing Group:	III
14.5 Environmental hazards:	No

Land transport (ADR/RID)

14.1 UN-No:	1170
14.2 Proper Shipping Name:	ETHANOL SOLUTION
14.3 Class:	3
14.4 Packing Group:	III
14.5 Environmental hazards:	No

14.6 Special precautions for user:	Refer to section 7
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable

Sea transport (IMDG-Code)

14.1 UN-No:	1170
14.2 Proper Shipping Name:	ETHANOL SOLUTION
14.3 Class:	3
14.4 Packing Group:	III
14.5 Environmental hazards:	No
Marine pollutant:	No
14.6 Special precautions for user:	Refer to section 7
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable

Air transport (ICAO-IATA)

14.1 UN-No:	1170
14.2 Proper Shipping Name:	ETHANOL SOLUTION
14.3 Class:	3
14.4 Packing Group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Refer to section 7
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable

SECTION 15: REGULATORY INFORMATION

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

European Regulations
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Substances of very high concern (SVHC):

None

Authorisations:

None

Restrictions of use:

None

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revisions

March-2025 : Version 14.0 - Updates to sections 1, 2, 3, 9, 14, 15, 16
November-2025 : Version 14.1 - Updates to sections 15, 16

Key literature references

RIFM database
REACH
Supplier information

Full text of phrases used under section 2

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264	Wash thoroughly after handling.
P240	Ground/bond container and receiving equipment.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use appropriate fire extinguishers for fire control.

Full text of phrases used under section 3

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

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 dsm-firmenich, it is the user's obligation to determine conditions of safe use of the product.

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