

Firmenich

GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

935104
METHYLHEPTYLKETONE
© Firmenich product

CAS No: 821-55-6
EC No: 212-480-0
REACH No: 01-2120118577-52

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

Ingredient for use in products that may be ingested and/or fragrance ingredient for use in consumer product.
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 Incorporated
250 Plainsboro Road
Princeton
New Jersey 08536
USA
Tel: +1 609 452 10 00

GRS.Flavor.NAM@firmenich.com

1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 866 928 0789 (TOLL FREE) OR +1 215 207 0061.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Flammable Liquid - Cat. 4	H227
Skin Irritation - Cat. 2	H315
Eye Irritation - Cat.2A	H319

Additional information

Full text of listed statements : See section 16

2.2 Label elements

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Hazard pictograms:



Signal Word:

Warning

Hazard Statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H227 Combustible liquid

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

No data available at this time.

3 COMPOSITION/INFORMATION ON INGREDIENTS

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

3.1 Substance

Chemical substance.

Contains :

>= 99.0 <= 100.0%
2-Nonanone
N° CAS : 0000821-55-6
N° EINECS: 212-480-0
N° EU REACH: 01-2120118577-52

GHS Classification:

Skin Irritation - Cat. 2 [H315]
Eye Irritation - Cat.2A [H319]
Flammable Liquid - Cat. 4 [H227]

4 FIRST-AID MEASURES

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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.

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 advice immediately.

Do not induce vomiting, 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.

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.

Use standard procedures and preferred extinguishing media as stated below.

Extinguishing media: Foam, carbon dioxide or dry chemical.

5.2 Special hazard arising from the substance or mixture

None.

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:

Gloves impervious to the chemical substance 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.

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 gloves impervious to the chemical substance 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 general rules for compatibility storage.

7.3 Specific end use(s)

Not available at this time.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values

Derived No Effect Level (DNEL)

No data available

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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: None required; avoid breathing vapors.
Hand protection: Gloves impervious to the chemical substance 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 :	LIQUID
Colour :	COLOURLESS
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	= 4.57 at 23.8°C (OECD 122)
Melting point/range (°C) :	= -9 °C
Initial boiling point/range (°C) :	= 198 °C at 98.17kPa (OECD 103)
Flash point (closed cup) :	= 153 Fahrenheit (= 67 Centigrade)
Evaporation rate :	Not available
Flammability (solid/gas) :	Not applicable
Explosive properties (St class) :	N/A
Vapor pressure (At 20°C in mm Hg) :	0.4
Vapour density :	Not available
Relative density (d 20/20) :	= 0.82 at 20°C (OECD 109)
Water solubility (20°C) :	= 371 mg/l at 25°C
Partition coef. (n-octanol/water) :	Not available
Auto-ignition temperature (°C) :	= 240 °C at
Decomposition temperature :	Not available
Viscosity :	= 7.793 mPa.s at 20°C (OECD 114)
Explosive properties :	Not available
Oxidizing properties :	Not available

9.2 Other safety information

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None

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.

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

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

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) acute toxicity

Acute oral toxicity (Rat, Oral): LD50 > 5000

Acute dermal toxicity (Rabbit): LD50 > 5000 mg/kg

(b) skin corrosion/irritation

Primary Skin irritation (OECD 404 modified) (Rabbit, Occlusive): Irritant

(c) serious eye damage/irritation

Acute Eye irritation (OECD-TOOLBOX): Irritant

(d) respiratory or skin sensitisation

Skin sensitization (Human): Non-sensitising to skin

(e) germ cell mutagenicity

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In vitro Mammalian Cell Micronucleus Test (Chinese hamster, OECD 487, Without S9): Non mutagenic

(f) carcinogenicity
No data available

(g) reproductive toxicity
Reproduction/Developmental Toxicity Screening Test (Rat, OECD 421, Inhalation, 50 day(s)):
NOAEL = 8 mg/kg/day
NOAEL (development) = 100 mg/kg/day
NOAEL (male reproduction) = 8 mg/kg/day

(h) STOT-single exposure
No data available

(i) STOT-repeated exposure
No data available

(j) aspiration hazard
No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Alga, Growth Inhibition Test (*Pseudokirchneriella subcapitata*, OECD-TOOLBOX): 72 h ErC50 = 152.5 mg/l

Daphnia sp. Acute Immobilisation Test and Reproduction Test (OECD-TOOLBOX): 48h EC50 = 235.99 mg/l

Fish, Acute Toxicity Test (*Pimephales promelas*, Flow-through): 96h LC50 = 15.2 mg/l

Toxicity to microorganisms (*Tetrahymena pyriformis*): 48h IGC50 = 449 mg/l (Based on nominal concentrations)

12.2 Persistence and degradability

Biodegradation assessment (Bacteria): Non readily biodegradable

Ready Biodegradation Prediction (Sludge): Not persistent

Ready Biodegradation Prediction (Soil): Not persistent

Ready Biodegradation Prediction (Water): Not persistent

12.3 Bioaccumulative potential

Bioconcentration factor BCF Aquatic = 54.8 L/kg (Conclusion of weight of evidence based on 4 QSAR studies)

Log Kow = 3.14

12.4 Mobility in soil

Adsorption coefficient: Log Koc = 1.957

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12.5 Results of PBT and vPvB assessment
Not applicable

12.6 Other adverse effects
No data available

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:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing Group:	---

Land transport (ADR/RID)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

Sea transport (IMDG-Code)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

Air transport (ICAO-IATA)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

15 REGULATORY INFORMATION

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

This chemical is NOT subject to reporting requirements of Section 313 of Title III of the Superfund Amendments 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

March-2021 : Version 10.1 - Updates to sections 1, 2, 3 ,8 ,9, 11, 12, 14, 15, 16

Key literature references

RIFM database
OECD SIDS
EU IUCLID
Supplier information

Full text of phrases used under section 2

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H227	Combustible liquid
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use appropriate fire extinguishers for fire control.
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.

Full text of phrases used under section 3

H227	Combustible liquid
H315	Causes skin irritation.
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 Firmenich, it is the user's obligation to determine conditions of safe use of the product.

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