

GHS Safety Data Sheet

According to Regulation ST/SG/AC.10/30/Rev.11 UN GHS

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

949970

IRALIA® TOTAL

dsm-firmenich product

CAS No:	1335-46-2
EC No:	942-741-0
EU REACH No:	01-2120096737-39

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 Asia Private Ltd

No 10 Tuas West Road

Singapore 638377

SINGAPORETel: +(65) 6347 2888P&B.RA.ASIA@dsm-firmenich.com

1.4 Emergency telephone number

+65 3158 1074 NCEC - Available 24/7

2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation ST/SG/AC.10/30/Rev.11 [UN/GHS]

Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1B	H317
Environmental Hazard (acute) - Cat. 2	H401

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Environmental Hazard (chronic) - Cat. 2

H411

2.1.2 Additional information

Full text of listed statements : See section 16

2.2 Label elements

Hazard pictograms:



Signal Word:

Warning

Hazard Statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

2.3 Other hazards

No data available at this time.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical substance.

Contains :	GHS Classification:
50.0 - 60.0% 3-Buten-2-One, 3-Methyl-4-(2,6,6-Trimethyl-2-Cyclohexen-1-Yl)- N° CAS : 0000127-51-5 N° EC: 204-846-3	Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat. 2B [H320] Environmental Hazard (chronic) - Cat. 2 [H411] Environmental Hazard (acute) - Cat. 2 [H401]

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Contains :	GHS Classification:
>= 30.0 < 40.0% 1-Penten-3-One, 1-(2,6,6-Trimethyl-2-Cyclohexen-1-YI)-, [R-(E)]- N° CAS : 0000127-42-4 N° EC: 204-842-1	Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat. 2B [H320] Environmental Hazard (chronic) - Cat. 2 [H411] Environmental Hazard (acute) - Cat. 2 [H401]
>=2.5 < 5.0% 1-Penten-3-One, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-YI)- N° CAS : 0000127-43-5 N° EC: 264-140-6	Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Environmental Hazard (chronic) - Cat. 2 [H411] Environmental Hazard (acute) - Cat. 2 [H401]

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.

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.

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5.2 Special hazard arising from the substance or mixture

No specific hazard known.

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:

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.

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.

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 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)

DNEL Worker (dermal), systemic effects - long-term, = 0.83 mg/kg bw/day
Worker (dermal), local effects - acute & long-term, Medium hazard (no threshold derived)
Worker (dermal), systemic effects - acute, No hazard identified.
Worker (eyes), No hazard identified.
DNEL Worker (inhalation), systemic effects - long-term, = 2.94 mg/m ³
Worker (inhalation), systemic effects - acute, mg/m ³ No hazard identified.
Worker (inhalation), local effects - acute & long-term, mg/m ³ Hazard unknown but no further hazard information required as no exposure expected.
DNEL Consumer (oral), systemic effects - long-term, = 0.42 mg/kg bw/day
Consumer (oral), systemic effects - acute, No hazard identified.
DNEL Consumer (inhalation), systemic effects - long-term, = 0.72 mg/m ³
Consumer (inhalation), systemic effects - acute, mg/m ³ No hazard identified.
Consumer (inhalation), local effects - acute & long-term, mg/m ³ Medium hazard (no threshold derived)
Consumer (eyes), No hazard identified.
DNEL Consumer (dermal), systemic effects - long-term, = 0.42 mg/kg bw/day
Consumer (dermal), systemic effects - acute, No hazard identified.
Consumer (dermal), local effects - acute & long-term, No hazard identified.

**Predicted No Effect Concentration (PNEC)**

PNEC Aqua (freshwater) = 6.8 µg/l
PNEC Aqua (marine water) = 0.68 µg/l
PNEC Water (intermittent release) = 68 µg/l
PNEC Sediment (freshwater) = 1.306 mg/kg sediment dw
PNEC Sediment (marine water) = 0.131 mg/kg sediment dw
PNEC STP = 3.2 mg/l
PNEC Soil = 0.257 mg/kg soil dw
PNEC Air No hazard identified.
PNEC Oral (secondary poisoning) = 6.67 mg/kg food

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

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 :	LIQUID
Colour :	PALE YELLOW TO YELLOW
Odour :	Characteristic strong odour according to the commercial description of the substance.
Melting point/range (°C) :	< -20 °C (OECD 102)
Initial boiling point/range (°C) :	= 268 °C (OECD 103)
Flammability :	The product is not flammable.
Explosive properties (St class) :	Not determined
Flash point (closed cup) :	> 100°C

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Auto-ignition temperature (°C) :	Data on analogue - = 265 °C at 992-998.4hPa (Method A15)
Decomposition temperature :	No decomposition if stored and applied as directed.
pH :	Not determined
Water solubility (20°C) :	= 5.33 - 10.5 mg/l at 20°C (OECD 105)
Partition coef. (n-octanol/water) :	Log Kow = 4.14 - 4.33 (OECD 117)
Vapour pressure (Pa) :	VP = 1.3 Pa at 25°C (OECD 104)
Relative density (d 20/20) :	= 0.931 at 20°C (OECD 109)

9.2 Other safety information

None

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.

11 - TOXICOLOGICAL INFORMATION



11.1 Information on toxicological effects

(a) acute toxicity

Acute oral toxicity (Rat, OECD 420, Gavage): LD50 > 2000 mg/kg

Data on analogue - Acute dermal toxicity (Rat, OECD 402, Open to air): LD50 = 2900 mg/kg

(b) skin corrosion/irritation

Primary Skin irritation (OECD 404 modified) (Rabbit, Semi-occlusive): Irritant (Conclusion of the weight of evidence based on 2 read across studies)

Primary Skin irritation (Rabbit, OECD 404, Semi-occlusive): Irritant

(c) serious eye damage/irritation

Isolated Chicken Eye test method for identifying ocular corrosives and severe irritant (OECD 438): Inconclusive

Data on analogue - Acute Eye irritation (Rabbit): Non irritant

(d) respiratory or skin sensitisation

Data on component - Local Lymph Node Assay (LLNA) OECD 429: Sensitising to skin

(e) germ cell mutagenicity

Bacterial Reverse Mutation test (Ames) (Salmonella + E. Coli, OECD 471, With and without S9, 5 strains): Non mutagenic

Data on analogue - In Vivo Mammalian Erythrocyte Micronucleus Test (Mouse, OECD 474, Intraperitoneal): Non mutagenic

Data on analogue - In vitro mammalian cell gene mutation test (Chinese hamster, CHO-K1 cells, OECD 476, With and without S9): Non mutagenic

(f) carcinogenicity

No data available

(g) reproductive toxicity

Data on analogue - Prenatal development toxicity study (Rat, OECD 414, Gavage, 13 day(s)): NOAEL (maternal) = 100 mg/kg/day

NOAEL (development) = 400 mg/kg/day

(h) STOT-single exposure

No data available

(i) STOT-repeated exposure

Data on component - Repeated Dose 90-Day Oral Toxicity Study in Rodents (Rat, OECD 408, Gavage): NOAEL = 30 mg/kg/day

(j) aspiration hazard

No data available

12 - ECOLOGICAL INFORMATION

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12.1 Toxicity

QSAR - Alga, Growth Inhibition Test (iSafeRat® HA-QSAR): 72 h EL50 = 9.8 mg/l

QSAR - Daphnia sp. Acute Immobilisation Test (iSafeRat® HA-QSAR): 48h EL50 = 8.4 mg/l

QSAR - Fish, Acute Toxicity Test (iSafeRat® HA-QSAR): 96h LL50 = 6.8 mg/l

12.2 Persistence and degradability

Ready Biodegradation - Manometric Respirometry Test (OECD 301F): Readily biodegradable (81% in 28 day(s))

Ready Biodegradation - Closed Bottle Test (OECD 301D, Freshwater): Non readily biodegradable (38.0% in 28 day(s))

12.3 Bioaccumulative potential

Log Kow = 4.14 - 4.33 (OECD 117)

12.4 Mobility in soil

QSAR - Adsorption coefficient: Log Koc = 3.23 - 3.28

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.

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	UNO	Land transport (ADR/RID)	Sea transport (IMDG-Code)	Air transport (ICAO-IATA)
14.1 UN-No:	3082	3082	3082	3082
14.2 Proper Shipping Name:	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL IONONE, ALPHA-ISO-)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL IONONE, ALPHA-ISO-)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL IONONE, ALPHA-ISO-)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL IONONE, ALPHA-ISO-)
14.3 Class:	9	9	9	9
14.4 Packing Group:	III	III	III	III
14.5 Environmental hazards:	Hazardous to the Environment	Hazardous to the Environment	Marine pollutant	Hazardous to the Environment
14.6 Special precautions for user:	Refer to section 7	Refer to section 7	Refer to section 7	Refer to section 7
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable	Not applicable	Not applicable	Not applicable

15 - REGULATORY INFORMATION

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

No relevant information available at this time.

15.2 Chemical Safety Assessment

No data available at this time.

16 - OTHER INFORMATION

16.1 Revisions

March-2025 : Version 14.0 - Updates to sections 2, 3, 9, 14, 16

16.2 Key literature references

RIFM database
OECD SIDS
EU IUCLID
Supplier information



16.3 Full text of phrases used under section 2

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.

16.4 Full text of phrases used under section 3

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H320	Causes eye irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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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