

GHS Safety Data Sheet

According to Regulation ST/SG/AC.10/30/Rev.8 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

909158

AMBROX® SUPER
dsm-firmenich product

CAS No: 6790-58-5
EC No: 229-861-2
EU REACH No: 01-2120070784-50

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 Aromatics Production (India) Private Limited
ABR Sapphire, Plot 79, MIDC, Street 13
Andheri(East), Mumbai 400093
INDIA
Tel: +91-22-66196000

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

1.4 Emergency telephone number

+65 3158 1198 Available 24/7 (NCEC)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation ST/SG/AC.10/30/Rev.8 [UN/GHS]

Not Classified.

2.1.2 Additional information

Full text of listed statements : See section 16

2.2 Label elements

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2.3 Other hazards

No data available at this time.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical substance.

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 dust.

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:

For cleaning-up:

Spillages should be disposed of in accordance with Governmental Regulations.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep strict control of dust accumulation to a minimum.

Avoid contact with skin and eyes.

Wear adequate protective gloves protection and eye/face protection.

No smoking. Avoid any source of ignition. Use flameproof electrical equipment and spark-reduced tools.

Ensure that all equipments are properly bonding and earthing.

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

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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), = 1.4 mg/kg bw/day

Worker (dermal), systemic effects - acute, No hazard identified.

Worker (dermal), local effects - acute & long-term, No hazard identified.

Worker (eyes), No hazard identified.

DNEL Worker (inhalation), systemic effects - long-term, = 4.93 mg/m³

Worker (inhalation), systemic effects - acute, mg/m³ No hazard identified.

Worker (inhalation), local effects - acute & long-term, mg/m³ No hazard identified.

DNEL Consumer (oral), systemic effects - long-term, = 0.5 mg/kg bw/day

Consumer (oral), systemic effects - acute, No hazard identified.

Consumer (oral), local effects - acute & long-term, No hazard identified.

DNEL Consumer (inhalation), = 0.87 mg/m³

Consumer (inhalation), systemic effects - acute, mg/m³ No hazard identified.

Consumer (inhalation), local effects - acute & long-term, mg/m³ No hazard identified.

Consumer (eyes), No hazard identified.

DNEL Consumer (dermal), systemic effects - long-term, = 0.5 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) = 16 µg/l

PNEC Aqua (marine water) = 1.6 µg/l

PNEC Water (intermittent release) No hazard identified.

PNEC Sediment (freshwater) = 18.26 mg/kg sediment dw

PNEC Sediment (marine water) = 1.862 mg/kg sediment dw

PNEC STP = 10 µg/l

PNEC Soil = 1.976 mg/kg soil dw

Air No hazard identified.

PNEC Oral (secondary poisoning) = 22.22 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

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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 :	CRYSTALLINE POWDER
Colour :	WHITE
Odour :	Characteristic strong odour according to the commercial description of the substance.
Melting point/range (°C) :	= 75.1 °C (OECD 102)
Initial boiling point/range (°C) :	= 318 °C (OECD 103)
Flammability :	Not expected
Explosive properties (St class) :	Not applicable, the product is a solid.
Flash point (closed cup) :	> 100°C
Auto-ignition temperature (°C) :	Not applicable, the product is a solid.
Decomposition temperature :	No decomposition if stored and applied as directed.
pH :	Not determined
Water solubility (20°C) :	Data on analogue - = 1.88 mg/l at 20°C (OECD 105)
Partition coef. (n-octanol/water) :	Data on analogue - Log Kow = 5.09 (OECD 123)
Vapour pressure (Pa) :	VP = 0.066 Pa at 25°C (OECD 104)
Relative density (d 20/20) :	= 1.052 at 20°C (OECD 109)

9.2 Other safety information

9.2.1 Explosive properties (Measured)

No data available at this time.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No reaction known with water.

10.2 Chemical stability

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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 : LD50 > 2000 mg/kg (Conclusion of weight of evidence based on 3 studies)

Acute dermal toxicity (Rabbit, Occlusive): LD50 > 2000 mg/kg

Acute Toxicity by inhalation : LC50 (Data waived based on low vapour pressure and large particle size.)

(b) skin corrosion/irritation

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

(c) serious eye damage/irritation

Acute Eye irritation (Rabbit, OECD 405): Non irritant

(d) respiratory or skin sensitisation

Skin sensitization : Non-sensitising to skin (Conclusion of weight of evidence based 2 studies)

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

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

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

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Data on analogue - In vitro Mammalian Chromosome Aberration Test (Chinese hamster, OECD 473): No chromosomal aberration

(f) carcinogenicity
No data available

(g) reproductive toxicity
Data on analogue - Combined Repeat. Dose Tox. & Reprod./Develop. Tox. Screening (Rat, OECD 422, Gavage, 28 day(s)):

NOAEL = 800 mg/kg/day

NOAEL (fertility) = 800 mg/kg/day

Data on analogue - Prenatal development toxicity study (Rat, OECD 414, Gavage, 14 day(s)):

NOAEL (development) = 400 mg/kg/day

(h) STOT-single exposure
No data available

(i) STOT-repeated exposure
Data on analogue - Repeated Dose 90-Day Oral Toxicity Study in Rodents (Rat, OECD 408, Gavage): NOAEL = 100 mg/kg/day

(j) aspiration hazard
No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Data on analogue - Alga, Growth Inhibition Test (Pseudokirchneriella subcapitata, OECD 201, Static):

72 ErC50 > 1.4 mg/l (Based on average measured concentrations)

72 NOEC >= 1.4 mg/l (Based on average measured concentrations)

Daphnia sp. Acute Immobilisation Test (OECD 202, Static): 48h EC50 > 0.92 mg/l (Based on average measured concentrations)

Data on analogue - Fish, Acute Toxicity Test (Zebra fish, OECD 203, Static): 96 LC50 > 0.51 mg/l (Based on average measured concentrations)

Data on analogue - Daphnia magna Reproduction Test (OECD 211, 21 day(s)): NOEC >= 0.937 mg/l (Based on time weighted average concentrations)

Fish, Early-Life Stage Toxicity Test (Pimephales promelas, OECD 210, 32 day(s)): EC10 = 0.16 mg/l (Based on time weighted average concentrations)

12.2 Persistence and degradability

Ready Biodegradation - Manometric Respirometry Test (OECD 301F, Sludge): Readily biodegradable (71% in 28 day(s))

12.3 Bioaccumulative potential

Data on analogue - Bioaccumulative potential BCF = 373 (Conclusion of weight of evidence based on 2 studies)

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Data on analogue - Log Kow = 5.09 (OECD 123)

12.4 Mobility in soil

Data on analogue - Adsorption coefficient (OECD 121): Log Koc = 3.72

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

14.1 UN-No:	Not regulated
14.2 Proper Shipping Name:	N/A
14.3 Class:	---
14.4 Packing Group:	---
14.5 Environmental hazards:	No

Land transport (ADR/RID)

14.1 UN-No:	Not regulated
14.2 Proper Shipping Name:	N/A
14.3 Class:	---
14.4 Packing Group:	---
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Refer to section 7

Sea transport (IMDG-Code)

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14.1 UN-No:	Not regulated
14.2 Proper Shipping Name:	N/A
14.3 Class:	---
14.4 Packing Group:	---
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

Air transport (ICAO-IATA)

14.1 UN-No:	Not regulated
14.2 Proper Shipping Name:	N/A
14.3 Class:	---
14.4 Packing Group:	---
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

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

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16.3 Full text of phrases used under section 2

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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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