

Firmenich

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (as amended)

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

967412
NORLIMBANOL_z
© Firmenich product

CAS No: 70788-30-6
EC No: 274-892-7

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

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

Bella Mistry
Firmenich UK Ltd
Hayes Road, Southall
MIDDLESEX UB2 5NN - UNITED KINGDOM
bella.mistry@firmenich.com
Tel: +44 208 843 61 11, Fax: +44 208 843 62 38

1.4 Emergency telephone number

Tel: +41.22.780.37.90
Available 24/7 (NCEC)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin Irritation - Cat. 2 H315

Classification according to 67/548/EEC or 1999/45/EC as amended

Symbols:

Xi Irritant

Risks Phrases:

R38 Irritating to skin.

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.

Precautionary Statements:

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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Hazard Inducers:

Cyclohexanepropanol, 2,2,6-trimethyl-.alpha.-propyl-

2.3 Other hazards

No data available at this time.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Chemical substance.

Contains :

>= 99.0 <= 100.0%

Cyclohexanepropanol, 2,2,6-Trimethyl-.Alpha.-Propyl-

N° CAS : 0070788-30-6

N° EINECS: 274-892-7

Classification: Xi - R38

GHS Classification:

Skin Irritation - Cat. 2 [H315]

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:

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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.

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.

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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.

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

-

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.

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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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance :	LIQUID COULD CRYSTALLIZE
Colour :	COLOURLESS
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not available
Melting point/range (°C) :	Not available
Initial boiling point/range (°C) :	Not available
Flash point (closed cup) :	> 100°C
Evaporation rate :	Not available
Flammability (solid/gas) :	Not available
Upper/lower flammability or explosive limits :	Not available
Vapour pressure (Pa) :	.00666613
Vapour density :	Not available
Relative density (d 20/20) :	0.895 - 0.899
Water solubility (20°C) :	Not available
Partition coef. (n-octanol/water) :	Not available
Auto-ignition temperature (°C) :	Not available
Decomposition temperature :	Not available
Viscosity :	Not available
Explosive properties :	Not available
Oxidizing properties :	Not available

9.2 Other safety information

None

10 STABILITY AND REACTIVITY

10.1 Reactivity

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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

RIFM Monograph 1190

LD50 (oral, rat) (OECD 401: limit) : > 5000 mg/kg

LD50 (oral, rat) (OECD 401: limit) : > 20 ml/kg

LD50 (dermal, rabbit) (OECD 402 : limit) : > 2000 mg/kg

LD50 (dermal, rabbit) (OECD 402 : limit) : > 2000 mg/kg

Irritation (dermal) (FHSA) : Non irritant @ 100%

Irritation (dermal) (HRIPT) : non irritant @ 2%

Irritation (dermal) (Human Max.): Non irritant @ 10%

Irritation (ocular) (FHSA) : Non irritant @ 20%

Irritation (ocular) (FHSA) : Non irritant @ 100%

Sensitization (guinea pig, Buehler): Non sensitizing @ 20%

Sensitization (HRIPT) : non sensitizing @ 2%

Sensitization (Human Max.): Non sensitizing @ 10%

Photo-toxicity: No effect @ 2%

Photo-allergenicity: No effects @ 2%

Mutagenicity (Salmonella Reversion) (OECD 471) : non mutagenic

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste.

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

Do not dump into any sewers, on the ground, or into any body of water.

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

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

EU Regulations

No relevant information available at this time.

15.2 Chemical Safety Assessment

No data available at this time

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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, 6, 8.1, 14, 16.
- 07-July-2014: Version 6.4 Updates to sections 2, 3, 14, 16.
- 30-May-2015: Version 6.5 Updates to sections 2, 3, 7, 8, 9,13,14,16

Key literature references

- RIFM database
- OECD SIDS
- EU IUCLID
- Supplier information

Full text of phrases used under section 2

- | | |
|-----------|--|
| S24/25 | Avoid contact with skin and eyes. |
| H315 | Causes skin irritation. |
| 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. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |

Full text of phrases used under section 3

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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