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

990257 VELOUTONE® © Firmenich product

CAS No:	65443-14-3
EC No:	265-779-3

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

Anne-Claude Verrier; Chemical Engineer & Toxicologist

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1.4 Emergency telephone number

+44 1235 239 670 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

Environmental Hazard (chronic) - Cat. 2 H411

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

Symbols:

Ν

Dangerous for the environment

Risks Phrases: R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional information

Full text of listed statements : See section 16

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

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

2.2 Label elements

Hazard pictograms:



Signal Word:

Hazard Statements:	
H411	Toxic to aquatic life

oxic to aquatic life with long lasting effects.

Precautionary Statements:

P273Avoid release to the environment.P391Collect spillage.

Hazard Inducers: Cyclopentanone, 2,2,5-trimethyl-5-pentyl-

2.3 Other hazards No data available at this time.

<u>3 COMPOSITION/INFORMATION ON INGREDIENTS</u>

3.1 Substance Chemical substance.

Contains :

>= 99.0 <= 100.0% Cyclopentanone, 2,2,5-Trimethyl-5-Pentyl-N° CAS : 0065443-14-3 N° EINECS: 265-779-3 Classification: N - R51/53 GHS Classification: Environmental Hazard (chronic) - Cat. 2 [H411]

4 FIRST-AID MEASURES

<u>4.1 Description of first aid measures</u> General information: As in all cases of potential poisoning, Obtain medical advice immediately.

In case of eye contact:

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

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

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.

<u>4.2 Most important symptoms and effects, both acute and delayed</u> No specific data available.

<u>4.3 Indication of immediate medical attention and special treatment needed</u> 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.

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

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

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 generals 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.

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

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

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 : Colour : Odour :	LIQUID COLOURLESS TO VERY PALE YELLOW Characteristic strong odour according to the commercial description of the substance.
	pH : Melting point/range (°C) : Initial boiling point/range (°C) : Flash point (closed cup) : Evaporation rate : Flammability (solid/gas) : Upper/lower flammability or explosive limits :	Not available Not available = 90°C Not available Not available
	Vapour pressure (Pa) : Vapour density : Relative density (d 20/20) : Water solubility (20°C) : Partition coef. (n-octanol/water) : Auto-ignition temperature (°C) : Decomposition temperature : Viscosity : Explosive properties : Oxidizing properties :	1.250565988 Not available 0.865 - 0.872 Not available Not available Not available Not available Not available Not available Not available Not available
).;	2 Other safety information	

None

9

10 STABILITY AND REACTIVITY

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

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

10.1 Reactivity

No reaction known with water.

- <u>10.2 Chemical stability</u> Good stability at standard temperature.
- 10.3 Possibility of hazardous reactions Not known.

<u>10.4 Conditions to avoid</u>
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 1296 LD50 (oral, rat) (OECD 401) : 6834 mg/kg LD50 (dermal, rabbit) (OECD 402 : limit) : > 2000 mg/kg Irritation (dermal, rabbit)(OECD 404): Non irritant Irritation (dermal) (HRIPT) : non irritant @ 10% Irritation (ocular) (FHSA) : non irritant @ 100% Sensitization (HRIPT) : non sensitizing @ 10% Phototoxicity (guinea pig): No effects @ 3%

12 ECOLOGICAL INFORMATION

Bioaccumulation (OECD 305B) : no significate bioaccumulation Acute fish toxicity: LC50 48-hour 5.45 mg/l

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.

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

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

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

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: Proper Shipping Name:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYL-PENTYL-CYCLOPENTANONE)
Class:	9
Packing Group:	III Hazardous to the Environment

Land transport (ADR/RID)

UN-No:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(TRIMETHYL-PENTYL-CYCLOPENTANONE)
Class:	9
Packing group:	

Sea transport (IMDG-Code)

UN-No: Proper Shipping Name:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYL-PENTYL-CYCLOPENTANONE)
Class: Packing group:	9 III
	Marine pollutant

Air transport (ICAO-IATA)

UN-No: Proper Shipping Name:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYL-PENTYL-CYCLOPENTANONE)
Class:	9
Packing group:	III

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

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

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

No data available at this time

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

S57 S61	Use appropriate container to avoid environmental contamination. Avoid release to the environment. Refer to special instructions/Safety data sheets.
H411	Toxic to aquatic life with long lasting effects.
P273	Avoid release to the environment.
P391	Collect spillage.
Full text of phrases	used under section 3

H411Toxic to aquatic life with long lasting effects.R51/53Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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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