

SAFETY DATA SHEET

according to the Globally Harmonized System

Givaudan

Taste Magic Milk Cookie Flv

Version 11.2

Revision Date 12 DEC 2023

Print Date 16 DEC 2023

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Sales No. : PM-ECOM-022
Taste Magic Milk Cookie Flv

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

Intended Use Flavours : Flavouring for foodstuffs. Not for retail sale

1.3 Details of the supplier of the safety data sheet

Company :
Givaudan (India) Private Ltd.,
MIDC Andheri (E) Mumbai 400093
401 Akruiti Center Point,
1st Floor MIDC Central Road,
MUMBAI 400093
INDIA

Telephone : +912266625700
Telefax : +91226662575
E-mail address : global.sds_info@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+6531581198
Please refer to section 16 for a full list of emergency phone numbers.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (Globally Harmonized System)

| | |
|--|--------------------------------------|
| Skin corrosion/irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage/eye irritation, Category 2A | H319: Causes serious eye irritation. |
| Short-term (acute) aquatic hazard, Category 3 | H402: Harmful to aquatic life. |

2.2 Label elements

Labelling (Globally Harmonized System)

Administrative information:

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Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of 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.
P332 + P317 If skin irritation occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

no data available

SECTION 3. Composition/information on ingredients

| Chemical name | CAS-No. EC-No. | Classification (Globally Harmonized System) | Concentration [%] |
|--|------------------------|---|-------------------|
| 3-hydroxy-2-ethyl-4H-pyran-4-one (=ethyl maltol) | 4940-11-8 225-582-5 | Acute Tox. 4; H302 Aquatic Acute 2; H401 | >= 5 - < 10 |
| 2-(4-Methyl-1,3-thiazol-5-yl)ethanol | 137-00-8 205-272-6 | Skin Irrit. 3; H316 Flam. Liq. 4; H227 Acute Tox. 5; H303 | >= 5 - < 10 |

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| | | | |
|--|-----------------------|--|-----------------|
| 6-Heptyltetrahydro-2H-pyran-2-one | 713-95-1 211-932-4 | Skin Irrit. 3; H316 | >= 5 - < 10 |
| 2-hydroxy-propanoic acid (= lactic acid) | 50-21-5 200-018-0 | Acute Tox. 5; H303 Skin Corr. 1C; H314 Eye Dam. 1; H318 | >= 1 - < 3 |
| 6-Pentyltetrahydro-2H-pyran-2-one | 705-86-2 211-889-1 | Flam. Liq. 4; H227 Aquatic Acute 2; H401 | >= 1 - < 2.5 |
| pentane-2,3-dione | 600-14-6 209-984-8 | Acute Tox. 5; H313 Acute Tox. 5; H303 Eye Dam. 1; H318 Aquatic Acute 3; H402 Flam. Liq. 2; H225 Skin Irrit. 3; H316 Skin Sens. 1B; H317 STOT RE 2; H373 | >= 0.1 - < 0.25 |

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
Risks : Causes skin irritation.
Causes serious eye irritation.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray

Unsuitable extinguishing media : no data available

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 15-30°C (60-85°F)
Preferably full, hermetically sealed
Advice on common storage : no data available
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Not applicable

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Exposure assessment: Exposures are dependent on the product being handled, the

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potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional PPE. The PPE indicated below are recommendations for worst-case scenario exposures. An exposure assessment will identify more applicable measures to be implemented. EN and ANSI standards are mentioned in the following recommendations, consult equivalent local standards when required.

PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained on the use of PPE.

8.2.1 Engineering measures

Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use the product only with adequate ventilation.

8.2.2 Personal protective equipment

- Eye/face protection : Use safety goggles and faceshield tested according to EN 166/ ANSI Z87.1 or equivalent local standard.
- Hand protection : Use gloves when handling substance in open systems. Inspect gloves prior to use. Train operators for proper use. If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according to EN 16523-1/ASTM F739 or equivalent local standard breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently.
If direct skin contact is expected: use gloves tested according to EN 16523-1/ASTM F739 or equivalent local standard, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.
- Other skin protection : Wear working clothes covering arms and legs. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or complete chemical suit if exposure is expected.
- Respiratory protection : Respiratory protection should be worn when workplace exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse

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effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

In case a risk analysis proved the cartridge respirator as acceptable, use type:
ABEK-P3 (EN 14387) OR Combination Multi-gas/P100 (42CFR84.193; ANSI Z88.7 or equivalent local standard) as a backup to engineering controls.

In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU) or NIOSH 42 CFR 84(US).

Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas.
Do not eat, drink or smoke during work.
Wash hands any time after handling the product.

8.2.3 Environmental exposure controls

General advice : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Form : Liquid low-medium viscosity, clear
Colour : Pale yellow to yellow
Taste : Creamy, Milky
Odour : not determined
Odour Threshold : Not applicable
Flash point : 104 °C Method: Grabner miniflash closed cup
Lower explosion limit : not determined
Upper explosion limit : not determined
Flammability : Not applicable
Oxidizing properties : no data available
Auto-ignition temperature : not determined

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| | |
|--|---|
| Decomposition temperature | : no data available |
| pH | : not determined |
| Melting point | : not determined |
| Boiling point | : > 38 °C at 1,013 hPa |
| Vapour pressure | : 0.2249 hPa at 20 °C Calculated (86.3 %) |
| Density | : 1,043.11 kg/m ³ at 20 °C |
| Bulk density | : Not applicable |
| Water solubility | : not determined |
| Solubility/qualitative | : soluble |
| Partition coefficient: n-octanol/water | : Not applicable |
| Viscosity, kinematic | : no data available |
| Relative vapour density | : no data available |
| Evaporation rate | : no data available |

SECTION 10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

SECTION 11. Toxicological information

Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: > 5,000 mg/kg
Method: Calculation method

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Acute oral toxicity

3-hydroxy-2-ethyl-4H-pyran-4-one
(=ethyl maltol) : LD50: 1,150 mg/kg Species: Rat

2-(4-Methyl-1,3-thiazol-5-yl)ethanol : LD50: 2,500 mg/kg Species: Rat

6-Heptyltetrahydro-2H-pyran-2-one : LD50: > 5,000 mg/kg Species: Rat

2-hydroxy-propanoic acid (= lactic acid) : LD50: 3,540 mg/kg Species: Rat

Acute inhalation toxicity : No data is available on the product itself.

Acute dermal toxicity : No data is available on the product itself.

Acute dermal toxicity

6-Heptyltetrahydro-2H-pyran-2-one : LD50: > 5,000 mg/kg Species: Rabbit

6-Pentyltetrahydro-2H-pyran-2-one : LD50: > 5,000 mg/kg Species: Rabbit

Acute toxicity (other routes of administration) : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Sensitisation : No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity : No data is available on the product itself.

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Not classified based on available information.

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Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

SECTION 12. Ecological information

Ecotoxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

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courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Dispose of in accordance with local regulations.

SECTION 14. Transport information

14.1 UN number

N/A

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

N/A

14.6 Special precautions for user

IMDG
IMDG Code Segregation : None
Group

14.7 Transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15. Regulatory information

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

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no additional relevant information

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed. |
| H313 | May be harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H316 | Causes mild skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H401 | Toxic to aquatic life. |
| H402 | Harmful to aquatic life. |

Full list of Emergency response numbers worldwide.

| | Country | Phone nr | | Country | Phone nr |
|--------------------|-------------------------|----------------------------------|-------------|--------------------------|-----------------------------------|
| Europe | All Europe | +44 1235 239670 | APAC | All East/South East Asia | +65 3158 1074 |
| | France | +33 1 72 11 00 03 | | Sri Lanka | +65 3158 1195 |
| | Germany | +49 89 220 61012 | | Taiwan | +886 2 8793 3212 |
| | Spain | +34 91 114 2520 | | Japan | 0120 015 230 |
| | Italy | 800 699 792 | | Indonesia | 007 803 011 0293 |
| | Netherlands | +31 10 713 8195 | | Malaysia | +60 3 6207 4347 |
| | Turkey | 0800 621 2139 +44 1235 239670 | | Thailand | 001 800 120 666 751 |
| | Norway | +47 2103 4452 | | India | +65 3158 1198 000 800 100 7479 |
| | Greece | +30 21 1198 3182 | | Pakistan | +65 3158 1329 |
| | Portugal | +351 30880 4750 | | Bangladesh | +65 3158 1200 |
| | Denmark | +45 8988 2286 | | Philippines | +63 2 8231 2149 |
| | Sweden | +46 8 566 42573 | | Vietnam | +84 28 4458 2388 |
| | Poland | +48 22 307 3690 | | Korea | +65 3158 1285 |
| | Czech republic | +420 228 882 830 | | South Korea | +82 2 3479 8401 |
| | Finland | +358 9 7479 0199 | | Australia | +61 2 8014 4558 |
| Middle East/Africa | All Middle East/Africa | +44 1235 239671 | New Zealand | +64 9 929 1483 | |
| | Bahrain and Middle East | +44 1235 239671 | China | +86 532 8388 9090 | |

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|--------|---------------------|-----------------|-------|-----------|------------------|
| | Africa/South Africa | +27 21 300 2732 | | Mexico | +52 55 5004 8763 |
| NOAM | USA and Canada | +1 866 928 0789 | LATAM | Brazil | +55 11 3197 5891 |
| | USA and Canada | +1 215 207 0061 | | Chile | +56 2 2582 9336 |
| | USA and Canada | +1 202 464 2554 | | Colombia | +57 1 508 7337 |
| Global | Global | +44 1865 407333 | | Argentina | +54 11 5984 3690 |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Information displayed in section 3 (Composition/information on ingredients) is additional information to understand the hazards of the product and ensure safe handling, storage and transportation. This information, including CAS numbers, is not meant to be used for registration, notification or any other purposes. Any additional information and documentation needed may be provided by Givaudan.

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