

**Kesar Badam Flavour**

Version 7.1

Revision Date 01 AUG 2023

Print Date 26 DEC 2023

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

**1.1 Product identifier**

Sales No. : PM-DA-0023  
Kesar Badam Flavour

**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)**

Not a hazardous substance or mixture.

**2.2 Label elements**

Not a hazardous substance or mixture.

**2.3 Other hazards**

no data available

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**SECTION 3. Composition/information on ingredients**

Chemical name	CAS-No. EC-No.	Classification (Globally Harmonized System)	Concentration [%]
3-Hydroxy-2-methyl-4H-pyran-4-one (= Maltol)	118-71-8 204-271-8	Acute Tox. 4; H302 Aquatic Acute 2; H401	>= 1 - < 2.5
2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol)	470-82-6 207-431-5	Flam. Liq. 3; H226 Acute Tox. 5; H303 Skin Sens. 1B; H317 Eye Irrit. 2B; H320 Aquatic Acute 3; H402	>= 0.25 - < 1
Cardamon seed oil	8000-66-6 288-922-1	Flam. Liq. 4; H227 Acute Tox. 5; H303 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2A; H319 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

**SECTION 4. First aid measures**

**4.1 Description of first aid measures**

- General advice : 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 : Take off contaminated clothing and shoes immediately.  
If on skin, rinse well with water.
- In case of eye contact : Remove contact lenses.  
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : 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 : no data available

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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 (CO<sub>2</sub>)  
Water spray

Unsuitable extinguishing media : no data available

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : no data available

**5.3 Advice for firefighters**

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

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : no data available

**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**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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**6.4 Reference to other sections**

Not applicable

**SECTION 7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

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 : Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50-85°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 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

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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 glasses 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 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.
- 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 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

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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-almost clear  
Colour : Almost colorless to Yellow brown  
Taste : Creamy, Saffron  
Odour : not determined  
Odour Threshold : Not applicable  
Flash point : > 94 °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  
Decomposition temperature : no data available  
pH : not determined  
Melting point : not determined  
Boiling point : not determined  
Vapour pressure : 0.2379 hPa at 20 °C Calculated (97.2 %)  
Density : 1,039.12 kg/m<sup>3</sup> 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

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**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 : Stable under recommended storage conditions., No hazards to be specially mentioned.

**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

**Acute oral toxicity**  
3-Hydroxy-2-methyl-4H-pyran-4-one : LD50: 1,410 mg/kg Species: Rat  
(= Maltol)

2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol) : LD50: 2,480 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**  
Cardamon seed oil : LD50: > 5,000 mg/kg Species: Rabbit

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

**Skin corrosion/irritation**

Skin irritation : No data is available on the product itself.

**Serious eye damage/eye irritation**

Eye irritation : No data is available on the product itself.

**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.

**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

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**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 : no data available

**SECTION 13. Disposal considerations**

**13.1 Waste treatment methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

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**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**

no additional relevant information

**SECTION 16. Other information**

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

H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**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

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	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
	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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