according to the Globally Harmonized System

# Givaudan

## TasteSolutions(TM) Mango (fleshy) Flavour

Version 4.0 Revision Date 26 DEC 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-ECOM-019

TasteSolutions(TM) Mango (fleshy) 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 Akruti 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)

Flammable liquids, Category 3 H226: Flammable liquid and vapour. Serious eye damage/eye irritation, H319: Causes serious eye irritation.

Category 2A

#### 2.2 Label elements

### **Labelling (Globally Harmonized System)**

Hazard pictograms





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Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements : **Prevention:** 

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving

equipment.

P241 Use explosion-proof electrical/ ventilating/

lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges. P264+P265 Wash hands thoroughly after handling. Do

not touch eyes.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing

protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing.

Rinse affected areas with 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.

P337 + P317 If eye irritation persists: Get medical help. P370 + P378 In case of fire: Use dry sand, dry chemical

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235

Store in a well-ventilated place. Keep cool.

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.	Classification	Concentration [%]
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	EC-No.	(Globally Harmonized System)	
propan-2-ol	67-63-0 200-661-7	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	>= 10 - < 20
2-propenyl hexanoate (= Allyl hexanoate)	123-68-2 204-642-4	Acute Tox. 3; H311 Acute Tox. 3; H331 Acute Tox. 3; H301 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 Flam. Liq. 4; H227	>= 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 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 : 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 serious eye irritation.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

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### **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. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

#### SECTION 6. Accidental release measures

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

Personal precautions : Use personal protective equipment.

Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 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 : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

#### 6.4 Reference to other sections

Not applicable

### SECTION 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

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.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours).

Keep away from open flames, hot surfaces and sources of

ignition.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: No smoking.

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. Observe label precautions.

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)

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Not applicable

## SECTION 8. Exposure controls/personal protection

#### 8.1 Control parameters

Components			CAS-No.	Value	Control parameters	Update	Basis
propan-2-ol		67-63-0	TWA 200 ppm		2013-03-01	ACGIH	
Further : A4: Not class information			sifiable as a hu	man carcino	gen		
				STEL	400 ppm	2013-03-01	ACGIH
Further : A4: Not cla		A4: Not clas	sifiable as a human carcinogen				
				ST	500 ppm 1,225 mg/m3	2013-10-08	NIOSH REL
				TWA	400 ppm 980 mg/m3	2013-10-08	NIOSH REL
				TWA	400 ppm 980 mg/m3	1997-08-04	OSHA Z-1
				TWA	400 ppm 980 mg/m3	1989-01-19	OSHA P0
				STEL	500 ppm 1,225 mg/m3	1989-01-19	OSHA P0
				PEL	400 ppm 980 mg/m3	2014-11-26	CAL PEL
				STEL	500 ppm 1,225 mg/m3	2014-11-26	CAL PEL

## 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 prod-uct'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

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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 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.

Use antistatic clothes when flammable liquids are handled. (EN 1149-5; ASTM F1505/ASTM STP1273 or equivalent local

standard).

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

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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 medium visc., almost clear-a bit cloudy

Colour : colorless to Yellowish red

Taste : Ripe yellow fruity, Fleshy, Sweet, sulphury-tropical

Odour : not determined Odour Threshold : Not applicable

Flash point : 35 °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

Vapour pressure : 16.1655 hPa at 20 ℃ Calculated (99.7 %)

: not determined

Density : 985.22 kg/m3 at 20 ℃

Administrative information:

Boiling point

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Bulk density : Not applicable Water solubility : not determined

Solubility/qualitative : soluble
Partition coefficient: n- : Not applicable

octanol/water

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. Vapours

may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : no data available

#### 10.6 Hazardous decomposition products

Hazardous decomposition : no data available

products

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

propan-2-ol : LD50: 5,045 mg/kg Species: Rat

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2-propenyl hexanoate (= Allyl

hexanoate)

: LD50: 218 mg/kg

Species: Rat

Acute inhalation toxicity

: Acute toxicity estimate Exposure time: 4 h

Dose: > 40.00 mg/l

Method: Calculation method

**Acute dermal toxicity** 

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

Acute dermal toxicity

propan-2-ol

: LD50: 12,800 mg/kg

2-propenyl hexanoate (= Allyl hexanoate)

: LD50: 300 mg/kg

Species: Rabbit

Species: Rabbit

of administration)

Acute toxicity (other routes : 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.

**Target Organ Systemic Toxicant - Single exposure** 

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Target Organ Systemic

: No data is available on the product itself.

Toxicant - Single exposure

#### Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated

: No data is available on the product itself.

exposure

**Aspiration hazard** 

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

**Phototoxicity** 

Phototoxicity : No data is available on the product itself.

Further information : Solvents may degrease the skin.

### SECTION 12. Ecological information

#### **Ecotoxicity**

## **Components:**

## allyl hexanoate:

M-Factor (Acute aquatic

toxicity)

### Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### Other adverse effects

**Product:** 

Additional ecological

: no data available

information

#### SECTION 13. Disposal considerations

## 13.1 Waste treatment methods

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Product : Do not dispose of waste into sewer.

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.

Do not burn, or use a cutting torch on, the empty drum.

Dispose of in accordance with local regulations.

## SECTION 14. Transport information

#### 14.1 UN number

 ADR
 : UN 1197

 IMDG
 : UN 1197

 IATA
 : UN 1197

14.2 UN proper shipping name

ADR : EXTRACTS, LIQUID : EXTRACTS, LIQUID

:

IATA : Extracts, liquid

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

#### 14.5 Environmental hazards

ADR

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

#### 14.6 Special precautions for user

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**ADR** 

Tunnel restriction code : (D/E)

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.

H225	Highly flammable liquid and vapour.
H227	Combustible liquid.

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

### Full list of Emergency response numbers worldwide.

	Country	Phone nr		Country	Phone nr
	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
Europe	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

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	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 replublic	+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		Brazil	+55 11 3197 5891
	USA and Canada	+1 215 207 0061	LATAM	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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