



## SAFETY DATA SHEET

### CHEFS FLAVOURS - GUANGO (0 MG/ML)

Compilation date: 27/09/2019  
Version No: 1

#### Section 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

**Product name:** CHEFS FLAVOURS - GUANGO (0 MG/ML)

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

**Use of substance/mixture:** For use in electronic cigarettes only.

##### 1.3 Details of the supplier of the information sheet

**Company name:** Chefs Flavours Ltd  
26 Aberaman Ind Est, Aberaman,  
Aberdare,  
CF44 6DA  
United Kingdom

**Tel:** +44 1685872951

**Email:** lewis@chefsflavours.co.uk

##### 1.4 Emergency telephone number

**Emergency tel:** +44 1685872951 (GMT: 08:00 – 16:00)

#### Section 2: Hazards Identification

##### 2.1 Classification of the substance or mixture

**Classification under CLP:** Skin Sens. 1: H317; Aquatic Chronic 3: H412.

**Most important adverse effects:** May cause an allergic skin reaction; Harmful to aquatic life with long lasting effects.

##### 2.2 Label elements

###### Label elements:

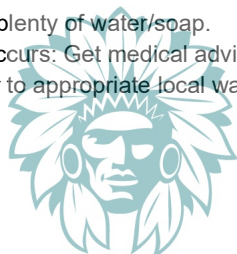
**Hazard statements:** H317: May cause an allergic skin reaction; H412; Harmful to aquatic life with long lasting effects

**Hazard pictograms:** GHS07: Exclamation mark



**Signal words:** Warning

**Precautionary statements:** P101: If medical advice is needed, have product container or label at hand.  
P103: Read label before use.  
P273: Avoid release to the environment.  
P302+352: IF ON SKIN: Wash with plenty of water/soap.  
P333+313: If skin irritation or rash occurs: Get medical advice/attention.  
P501: Dispose of contents/container to appropriate local waste system.



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**Supplemental information:** EUH208: Contains Linalool, Myrcene, Bisabolene, Terpinolene. May produce an allergic reaction.

#### 2.3 Other hazards

**Other hazards:** No data available.

**PBT:** This product is not identified as a PBT/vPvB substance.

### Section 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous ingredients:

Substances	CAS No.	EC No.	CLP Classification	Percent
Limonene	138-86-3	205-341-0	Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	1-3%
Furaneol	3658-77-3	222-908-8	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1: H317	1-2%
Linalool	78-70-6	201-134-4	Skin Sens. 1B: H317	0.1-0.9%
Myrcene	123-35-3	204-622-5	Flam. Liq. 3: H226; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Asp. Tox. 1: H304; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	0.1-0.5%
Bisabolene	495-61-4	610-461-5	Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1: H317	0.1-0.5%
Terpinolene	586-62-9	209-578-0	Skin Irrit. 2: H315; Skin Sens. 1: H317; Asp. Tox. 1: H304; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	0.1-0.5%

##### Non-hazardous ingredients:

Substances	CAS No.	EC No.	CLP Classification	Percent
Propylene glycol	57-55-6	200-338-0	Non-classified substance with WEL	40-80%
Ethanol	64-17-5	200-578-6	Flam. Liq. 2: H225; Substance with WEL	1-3%
3-Hexen-1-ol	544-12-7	208-860-0	Flam. Liq. 3: H226	1-3%
Ethyl 2-methylbutyrate	7452-79-1	231-225-4	Flam. Liq. 3: H226	1-3%
Gamma Undecalactone	104-67-6	203-225-4	Aquatic Chronic 3: H412	< 1%
Ethyl maltol	4940-11-8	225-582-5	Acute Tox. 4: H302	< 1%
$\alpha$ -Terpineol	98-55-5	202-680-6	Skin Irrit. 2: H315; Eye Irrit. 2: H319	< 1%
Other flavouring substances	-	-	Not hazardous at < 1%	1-5%

### Section 4: First aid measures

#### 4.1 Description of first aid measures

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

**Inhalation:** If breathing affected seriously: Remove person to fresh air and keep comfortable for breathing ensuring one's own safety whilst doing so. Call a doctor/emergency service if experiencing respiratory symptoms.



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**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Inhalation:** Exposure may cause coughing, wheezing, breathlessness or tightness of the chest.

**Skin contact:** There may be mild irritation and redness at the site of contact. An itchy rash may occur at the site contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be vomiting and diarrhoea after prolonged or repeated exposure.

**Delayed/immediate effects:** Prolonged or repeated exposure of propylene glycol and glycerin may cause nausea, headache, and vomiting.  
Delayed effects can be expected after long-term exposure of sensitisers.

#### Section 5: Fire-fighting measures

##### 5.1 Extinguishing media

**Extinguishing media:** Extinguish with carbon dioxide, dry chemical or foam. Alcohol resistant foams (ATC type) are preferred.

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

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide, carbon monoxide, nitrogen oxides.

##### 5.3 Advice for fire-fighters

**Advice for fire-fighters:** Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

#### Section 6: Accidental release measures

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

**Personal precautions:** Do not attempt to take action without suitable protective clothing – see section 8.  
Turn leaking containers leak-side up to prevent the escape of liquid.

##### 6.2 Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

##### 6.3 Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 for suitable method of disposal.

##### 6.4 Reference to other sections

**Reference to other sections:** Refer to section 8 and 13.



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#### Section 7: Handling and storage

##### 7.1 Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

##### 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight.

**Suitable packaging:** Not applicable.

##### 7.3 Specific end use(s)

**Specific end use(s):** For use in electronic cigarettes only.

#### Section 8: Exposure controls/personal protection

##### 8.1 Control parameters

##### PROPYLENE GLYCOL

###### Workplace Exposure Limits:

###### Respirable dust

State	8-hour TWA	15 min. STEL	8-hour TWA	15 min. STEL
UK	(particles) 10 mg/m <sup>3</sup> (total particles & vapour) 474 mg/m <sup>3</sup>	-	-	-

##### ETHANOL

###### Workplace Exposure Limits:

###### Respirable dust

State	8-hour TWA	15 min. STEL	8-hour TWA	15 min. STEL
UK	1920 mg/m <sup>3</sup>	-	-	-
Germany (DFG)	380 mg/m <sup>3</sup>	1520 mg/m <sup>3</sup>	-	-

##### n-AMYL ACETATE (1-PENTYL ACETATE)

###### Workplace Exposure Limits:

###### Respirable dust

State	8-hour TWA	15 min. STEL	8-hour TWA	15 min. STEL
UK	270 mg/m <sup>3</sup>	541 mg/m <sup>3</sup>	-	-
UK	270 mg/m <sup>3</sup>	541 mg/m <sup>3</sup>	-	-
Ireland	270 mg/m <sup>3</sup>	540 mg/m <sup>3</sup>	-	-
Belgium	270 mg/m <sup>3</sup>	540 mg/m <sup>3</sup>	-	-
Germany (DFG)	270 mg/m <sup>3</sup>	270 mg/m <sup>3</sup>	-	-
The Netherlands	-	530 mg/m <sup>3</sup>	-	-



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#### ISOAMYL ACETATE (ISOPENTYL ACETATE)

##### Workplace Exposure Limits:

State	8-hour TWA	15 min. STEL	Respirable dust	8-hour TWA	15 min. STEL
UK	270 mg/m <sup>3</sup>	541 mg/m <sup>3</sup>	-	-	-
Germany (AGS)	270 mg/m <sup>3</sup>	270 mg/m <sup>3</sup>			
Germany (DFG)	270 mg/m <sup>3</sup>	270 mg/m <sup>3</sup>			

##### DNEL/PNEC Values

DNEL / PNEC: No data available.

#### 8.2 Exposure controls

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday. Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Prevent from entering in public sewers or the immediate environment.

#### Section 9: Physical and chemical properties

##### 9.1 Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Variable (from colourless to pale yellow/orange)

**Odour:** Pleasant

**Evaporation rate:** No data available

**Oxidising:** No data available

**Solubility in water:** Soluble

**Viscosity:** No data available.

**Boiling point/range °C** No data available.

**Flammability limits % lower:** Not applicable.

**Flash point °C** No data available.

**Autoflammability °C** Not applicable.

**Relative density:** No data available.

**Melting point/range °C:** No data available.

**upper:** Not applicable.

**Part. coeff. n-octanol/water:** No data available.

**Vapour pressure:** No data available.

**pH:** No data available.

#### Section 10: Stability and reactivity



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#### 10.1 Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

#### 10.2 Chemical stability

**Chemical stability:** Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

**Conditions to avoid:** Flames. Direct sunlight.

#### 10.5 Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

#### 10.6 Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide, carbon monoxide, nitrogen oxides.

### Section 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Oral	Based upon the available data, the classification criteria are not met.
Dermal	Based upon the available data, the classification criteria are not met.
Inhalation	Based upon the available data, the classification criteria are not met.

##### Skin corrosion/irritation

Based upon the available data, the classification criteria are not met.

##### Eye damage/irritation

Based upon the available data, the classification criteria are not met.

##### Respiratory or skin sensitisation

Skin Sens. 1: H317  
Contain **limonene**, Furanol at concentration > 1.0%.

##### Germ cell mutagenicity

Based upon the available data, the classification criteria are not met.

##### Carcinogenicity

Based upon the available data, the classification criteria are not met.

##### Reproductive toxicity

Based upon the available data, the classification criteria are not met.

##### STOT – single exposure

Based upon the available data, the classification criteria are not met.

##### STOT – repeated exposure

Based upon the available data, the classification criteria are not met.

##### Aspiration hazard

Based upon the available data, the classification criteria are not met.

#### Symptoms/routes of exposure

**Inhalation:** Exposure may cause coughing, wheezing, breathlessness or tightness of the chest.

**Skin contact:** There may be mild irritation and redness at the site of contact. An itchy rash may occur at the site contact.

**Eye contact:** There may be mild irritation and redness.



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**Ingestion:** There may be vomiting and diarrhoea after prolonged or repeated exposure.

**Delayed/immediate effects:** Prolonged or repeated exposure of propylene glycol and glycerin may cause nausea, headache, and vomiting.

Delayed effects can be expected after long-term exposure of sensitisers.

## Section 12: Ecological information

### 12.1 Toxicity

#### LIMONENE

FATHEAD MINNOW ( <i>Pimephales promelas</i> )	96H LC50	0.72	mg/L
WATER FLEA ( <i>Daphnia magna</i> )	48H EC50	0.31	mg/L
GREEN ALGA ( <i>Scenedesmus subspicatus</i> )	72H ErC50	0.32	mg/L

#### β-MYRCENE

WATER FLEA ( <i>Daphnia magna</i> )	48H EC50	1.47	mg/L
GREEN ALGA ( <i>Scenedesmus subspicatus</i> )	48H ErC50	0.342	mg/L

#### TERPINOLENE

ZEBRAFISH ( <i>Brachydanio rerio</i> )	96H LC50	0.81	mg/L
WATER FLEA ( <i>Daphnia magna</i> )	48H EC50	0.63	mg/L
GREEN ALGA ( <i>Pseudokirchneriella subcapitata</i> )	72H EC50	0.69	mg/L

### 12.2 Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3 Bioaccumulative potential

**Bioaccumulative:** No data available.

### 12.4 Mobility in soil

**Mobility:** No data available.

### 12.5 Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6 Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

**Disposal operations:** Do not introduce into the environment. Disposal in accordance with the local/national legislation. Disposal of large quantities must be performed by qualified and authorised body.

**Recovery operations:** Not applicable.



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**Disposal of packaging:** Paper/board packaging may be reused or recycled. Bottles may be reused or recycled after cleaning.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Section 14: Transport information

This product does not require a classification for transport according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

##### 14.1 UN number

	ADR/RID	IMDG	IATA/ICAO
UN number:	None assigned.	None assigned.	None assigned.

##### 14.2 UN proper shipping name

	ADR/RID	IMDG	IATA/ICAO
UN proper shipping name:	None assigned.	None assigned.	None assigned.

##### 14.3 Transport hazard class(es)

	ADR/RID	IMDG	IATA/ICAO
Transport class:	None assigned.	None assigned.	None assigned.

##### 14.4 Packing group

	ADR/RID	IMDG	IATA/ICAO
Packing group:	None assigned.	None assigned.	None assigned.

##### 14.5 Environmental hazards

	ADR/RID	IMDG	IATA/ICAO
Environmental hazards:	Not classified.	Not classified.	Not classified.

##### 14.6 Special precautions for user

Special precautions: See Section: 2

##### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	ADR/RID	IMDG	IATA/ICAO
Transport in bulk:	Not applicable.	Not applicable.	Not applicable.

#### Section 15: Regulatory information

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

Specific regulations: Not applicable.

##### 15.2 Chemical safety assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.



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#### Section 16: Other information

##### Other information

**Other information:** This safety data sheet is prepared in accordance with Regulations (EC) No 1907/2006 and 1272/2008 as Amended and Adapted.

\* indicates text in the SDS which has changed since the last revision.

**List of abbreviations:** ADR, International Carriage of Dangerous Goods by Road  
ATE, acute toxicity estimate  
CAS, Chemical Abstracts Service  
CLP, Classification, Labelling and Packaging  
DNEL, Derived No Effect Level  
EC50, effective concentration 50%  
IATA, International Air Transport Association  
ICAO, International Civil Aviation Organisation  
IMDG, International Maritime Dangerous Goods  
LC50, lethal concentration 50%  
NB, Nota bene  
PBT, persistent, bioaccumulative, toxic  
PNEC, Predicted No Effect Concentration  
RID, International Carriage of Dangerous Goods by Rail  
SDS, Safety Data Sheet  
STEL, Short-term Exposure Limit  
STOT, Specific target organ toxicity  
TWA, Time Weighted Average  
UN, United Nations  
vPvB, very persistent, very bioaccumulative  
WEL, Workplace Exposure Limit

**Phrases used in s.2 and s.3:** EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.  
H225: Highly flammable liquid and vapour.  
H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.