

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: BLACK CARDAMOM FRAGRANCE 224061

Version: 1

## Section 1. Identification of the substance or the mixture and of the supplier

### 1.1 Product Identifier

Product identifier: BLACK CARDAMOM FRAGRANCE 224061(Contains:ETHYL  
TRIMETHYLCYCLOPENTENE BUTENOL, ETHYL VANILLIN, EUGENOL,  
Other identifiers: MANILLIN)

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

Product uses:

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification under Regulation (EC) No 1272/2008

Class and category of danger: Eye Damage / Irritation Category 2  
Sensitization - Skin Category 1  
Hazardous to the Aquatic Environment - Acute Hazard Category 1  
Hazardous to the Aquatic Environment - Long-term Hazard Category 2  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H400, Very toxic to aquatic life.  
H411, Toxic to aquatic life with long lasting effects.

#### Classification under Directive 1999/45/EC

Hazard symbols: Xn, Harmful.  
N, Dangerous for the environment.

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

**Risk phrases:** R22, Harmful if swallowed.  
R43, May cause sensitisation by skin contact.  
R51/53, Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 2.2 Label elements

**Signal word:** Warning

**Hazard statements:** H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H400, Very toxic to aquatic life.  
H411, Toxic to aquatic life with long lasting effects.

**Supplemental Information:** EUH208, Contains COUMARIN, CINNAMAL, CINNAMONITRILE. May produce an allergic reaction.

**Precautionary statements:** P261, Avoid breathing vapour or dust.  
P264, Wash hands and other contacted skin thoroughly after handling.  
P272, Contaminated work clothing should not be allowed out of the workplace.  
P273, Avoid release to the environment.  
P280, Wear protective gloves/eye protection/face protection.  
P302/352, IF ON SKIN: Wash with plenty of soap and water.  
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333/313, If skin irritation or rash occurs: Get medical advice/attention.  
P337/313, If eye irritation persists: Get medical advice/attention.  
P363, Wash contaminated clothing before reuse.  
P391, Collect spillage.  
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.



**Other hazards:**



None

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

**Contains:**

Name	CAS	EC	REACH Registration No.	%	Classification for (DSD) 67/548/EEC	Classification for (CLP) 1272/2008
BENZYL BENZOATE	120-51-4	204-402-9		25-<50%	Xn-N ; R22-R51/53	ATO 4-EH A1-EH C2; H302-H400-H411,-
ETHYL VANILLIN	121-32-4	204-464-7		5-<10%	- ; -	-;H320,-
VANILLIN	121-33-5	204-465-2		5-<10%	Xi ; R36	EDI 2;H319,-
ETHYL TRIMETHYLCYCLOPENTENE BUTENOL	28219-61-6	248-908-8		5-<10%	Xi-N ; R36/38-R50/53	EDI 2-EH A1-EH C1;H319-H410,-
2-METHYL-4-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-2-BUTEN-1-OL	28219-60-5	248-907-2		3-<5%	Xi-N ; R36-R50/53	EDI 2-EH A1-EH C1;H319-H410,-
EUGENOL	97-53-0	202-589-1		1-<3%	Xi ; R36-R43	EDI 2-SS 1B;H317-H319,-
PROPYLENE GLYCOL	57-55-6	200-338-0	01-2119456809-23	1-<3%	- ; -	GHSNONE;-,-
COUMARIN	91-64-5	202-086-7		0.1-<1%	Xn ; R22-R43	ATO 4-SS 1B;H302-H317,-
CINNAMONITRILE	1885-38-7, 4360-47-8	217-552-5, 224-441-5		0.1-<1%	Xn ; R43-R21/22	ATO 3-ATD 4-SS 1B;H301-H312-H317,-
PINENES				<0.1%	Xn ; R38-R43-R65	SCI 2-SS 1B-AH 1;H304-H315-H317,-
CINNAMAL	104-55-2	203-213-9		<0.1%	Xn ; R21-R38-R43	ATD 4-SCI 2-EDI 2-SS 1A; H312-H315-H317-H319,-
LIMONENE	5989-27-5	227-813-5		<0.1%	Xn-N ; R10-R38-R43-R65-R50/53	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304-H315-H317-H410,-
MYRCENE	123-35-3	204-622-5		<0.1%	Xn ; R10-R38-R65	FL 3-SCI 2-EDI 2-AH 1; H226-H304-H315-H319,-
GAMMA-TERPINENE	99-85-4	202-794-6		<0.1%	Xn ; R10-R65	FL 3-AH 1;H226-H304,-
ALPHA-TERPINENE	99-86-5	202-795-1		<0.1%	Xn-N ; R10-R22-R65-R51/53	FL 3-ATO 4-AH 1-EH C2; H226-H302-H304-H411,-
BETA-PHELLANDRENE	555-10-2	209-081-9		<0.1%	Xn ; R10-R65	FL 3-AH 1;H226-H304,-
ALPHA-PINENES	80-56-8	201-291-9		<0.1%	Xn ; R10-R38-R43-R65	FL 3-SCI 2-SS 1B-AH 1; H226-H304-H315-H317,-
BETA-PINENES	127-91-3	204-872-5		<0.1%	Xn ; R10-R38-R43-R65	FL 3-SCI 2-SS 1B-AH 1; H226-H304-H315-H317,-
P-CYMENE	99-87-6	202-796-7		<0.1%	Xn-N ; R10-R65-R51/53	FL 3-AH 1-EH C2;H226-H304-H411,-
TERPINOLENE	586-62-9	209-578-0		<0.1%	Xn-N ; R43-R65-R50/53	FL 3-SS 1B-AH 1-EH A1-EH C1;H226-H304-H317-H410,-
3-CARENE	13466-78-9	236-719-3		<0.1%	Xn ; R10-R38-R43-R65	FL 3-SCI 2-SS 1B-AH 1; H226-H304-H315-H317,-
ETHYL ACETATE	141-78-6	205-500-4		<0.1%	F-Xi ; R11-R36-R66-R67	FL 2-EDI 2-STO-SE 3(NE); H225-H319-H336-EUHO66

**Substances with Community workplace exposure limits, not listed above:**

Name	CAS	EC	%
DIETHYL PHTHALATE	84-66-2	201-550-6	15.31%
PROPYLENE GLYCOL	57-55-6	200-338-0	1.09%

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

**Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%:**

Not Applicable

## Section 4. First-aid measures

### 4.1 Description of first aid measures

IF ON SKIN: Wash with plenty of soap and water.

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

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

May cause an allergic skin reaction.

Causes serious eye irritation.

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

None expected, see Section 4.1 for further information.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

## Section 6. Accidental release measures

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

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

### 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

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

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

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# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: BLACK CARDAMOM FRAGRANCE 224061

Version: 1

## 6.4 Reference to other sections:

Also refer to sections 8 and 13.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.

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

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 7.3 Specific end use(s):

Use in accordance with good manufacturing and industrial hygiene practices.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits:

Ingredient	CAS	EC	Description	ppm	mg/m <sup>3</sup>	Reference
DIETHYL PHTHALATE	84-66-2	201-550-6	Long-term exposure limit (8-hour TWA reference period)	-	5	UK EH40 Oct 2007
			Short-term exposure limit (15-minute reference period)	-	10	UK EH40 Oct 2007
PROPYLENE GLYCOL	57-55-6	200-338-0	Long-term exposure limit (8-hour TWA reference period)	150	474	UK EH40 Oct 2007
			Short-term exposure limit (15-minute reference period)	-	-	UK EH40 Oct 2007

### 8.2 Exposure Controls

#### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

#### Respiratory Protection

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Clear pale yellow to pale brown liquid
<b>Odour:</b>	Not determined
<b>pH:</b>	Not determined
<b>Initial boiling point / range:</b>	Not determined
<b>Flash point:</b>	> 100 °C
<b>Vapour pressure:</b>	Not determined
<b>Relative density:</b>	1.1110 - 1.1150
<b>Solubility(ies):</b>	Not determined
<b>9.2 Other information:</b>	None available

## Section 10. Stability and reactivity

### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

### 10.2 Chemical stability:

Good stability under normal storage conditions.

### 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

### 10.4 Conditions to avoid:

Avoid extreme heat.

### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

### 10.6 Hazardous decomposition products:

Not expected.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).

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# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

May cause an allergic skin reaction.

Causes serious eye irritation.

**Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:** 2461 mg/kg

**Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:** >5000

**Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:** Not Available

**Inhalation Route:** Not Available

## Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
BENZYL BENZOATE	120-51-4	204-402-9	1500	4000	Not available	Not available
CINNAMONITRILE	1885-38-7, 4360-47-8	217-552-5, 224-441-5	275	1910	Not available	Not available

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

### 12.1 Toxicity:

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available

**12.4 Mobility in soil:** Not available

### 12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Other adverse effects:** Not available

## Section 13. Disposal considerations

### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14. Transport information

**14.1 UN number:** UN3082

**14.2 UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ETHYL TRIMETHYLCYCLOPENTENE BUTENOL, BENZYL BENZOATE)

**14.3 Transport hazard class(es):** 9

**SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061**Version:** 1**Sub Risk:** -**14.4. Packing Group:** III**14.5 Environmental hazards:** This is an environmentally hazardous substance.**14.6 Special precautions for user:** None additional**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable

**Section 15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

None additional

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

**Section 16. Other information****Concentration % Limits:** EH A1=44.23% EH C2=18.79% EH C3=1.88% EH C4=44.23% EDI 2=53.07% EDI 2A=35.75% SS 1=56.02%**Total Fractional Values:** EH A1=2.26 EH C2=5.32 EH C3=53.21 EH C4=2.26 EDI 2=1.88 EDI 2A=2.80 SS 1=1.79**Key to revisions:**

Not applicable

**Key to abbreviations:**

Abbreviation	Meaning
AH 1	Aspiration Hazard Category 1
ATD 4	Acute Toxicity - Dermal Category 4
ATO 3	Acute Toxicity - Oral Category 3
ATO 4	Acute Toxicity - Oral Category 4
EDI 2	Eye Damage / Irritation Category 2
EH A1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
EH C1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
EH C2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
FL 2	Flammable Liquid, Hazard Category 2
FL 3	Flammable Liquid, Hazard Category 3
GHSNONE	Not classified according to GHS
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.



# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
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.
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P337/313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/233/235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** BLACK CARDAMOM FRAGRANCE 224061

**Version:** 1

SCI 2	Skin Corrosion / Irritation Category 2
SS 1A	Sensitization - Skin Category 1A
SS 1B	Sensitization - Skin Category 1B
STO-SE 3(NE)	Specific Target Organ Toxicity (Single Exposure) Category 3

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.