

## **CERTIFICATE OF ANALYSIS**

Product : MENTHOL CRYSTALS

Batch Number BP: 4368210

Best Before End : August 2022

Characters : Conforms

Melting point  $: 43.1^{\circ} \text{C}$ 

Odour : Characteristic of menthol

Identification : Conforms

Appearance of solution

: Clear and colourless

Acidity or alkalinity

: Conforms

Specific optical rotation

 $: -50.0^{\circ}$ 

Residue on evaporation

: 0.044%



# **ALLERGENS LIST**

## **Menthol Crystals**

Product	CAS number		%
Amyl cinnamic alcohol	101-85-9	Not found in nature	-
Amyl cinnamic aldehyde	122-40-7	Not found in nature	•
Anisyl alcohol	105-13-5		-
Benzyl alcohol	100-51-6		-
Benzyl benzoate	120-51-4		-
Benzyl cinnamate	103-41-3		-
Benzyl salicylate	118-58-1		-
Cinnamic alcohol	104-54-1		-
Cinnamic aldehyde	104-55-2		-
Citral	5392-40-5		-
Citronellol	106-22-9		-
Coumarin	91-64-5		-
Eugenol	97-53-0		-
Farnesol	4602-84-0		-
Geraniol	106-24-1		-
Hexyl cinnamic aldehyde	101-86-0	Not found in nature	-
Hydroxycitronellal	107-75-5	Not found in nature	-
Hydroxymethylpentylcyclohexenecarboxaldehyde	31906-4-4	Not found in nature	-
Isoeugenol	97-54-1		-
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6		-
Limonene	5989-27-5		-
Linalol	78-70-6		-
Methylheptine carbonate	111-12-6	Not found in nature	-
Methyl ionone	127-51-5	Not found in nature	_
Oakmoss extract	9028-68-55		-
Treemoss extract	84696-53-7		-

- not detected



# **CERTIFICATE OF GMO STATUS**

For the purpose of this statement 'genetically modified organism (GMO)' is defined in Directive 2001/18/EC as an organism in which the genetic material has been altered in a way that does not occur naturally by mating and/or natural recombination.

This is to certify that to the best of our knowledge and belief the Menthol crystals that this company supplies are not produced by gene modification or derived from genetically modified organisms or from the use of genetically modified organisms.

Neither JMADAR Corporation Ltd. nor our suppliers can guarantee against or be held responsible for potential cross-pollination between crops, or any other unforeseen contamination risks.



# SAFETY DATA SHEET

# **Menthol Crystals**

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

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

1.1 Product identifier Product name Menthol crystals

EC number:	218-690-9
EC name:	L-menthol
CAS number (EC	2216-51-5
inventory):	
Registration number	01-2119458866-21-0043

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

Multiple uses in the Flavour and Fragrance industries

1.3 Details of the supplier of the safety data sheet

MADAR Corporation Limited 19-20 Sandleheath Industrial Estate Fordingbridge Hampshire SP6 1PA

Approved Sellers: Mystic Moments, New Directions, World of Moulds

## **SECTION 2: Hazards Identification**

### 2.1 Classification of the substance

Classification in accordance with the Dangerous Substances Directive 67/548/EEC

**Hazard Symbol** 

Χi

Risk Phrases R38 – Irritating to skin



Safety Phrases S36/37 – Wear suitable protective clothing and gloves

Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008

**Hazard Statements** 

H315 - Causes skin irritation H319 - Causes serious eye irritation

**Precautionary Statements** 

P305+351+338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses ifpresent and easy to do – continue rinsing

2.2 Label elements

Signal Word WARNING

**Pictograms** 



2.3 Other hazards

### **SECTION 3: Composition**

3.1 Substances

Menthol crystals 100 %

### **SECTION 4: First Aid Measures**

4.1 Description of first aid measures

EYE CONTACT: Irrigate the eyes with copious volumes of water for at least 15 minutes with the eye lids held open. Seek medical advice if inflammation persists

INHALATION: Remove person to fresh air, remove any contaminated clothing, in case of breathing difficulty seek medical advice.

SKIN CONTACT: Wash affected area with soap and running water, if irritation persists seek medical advice.



INGESTION: Dilute internally with water, do not induce vomiting. Seek medical advice immediately.

- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required

### **SECTION 5: Firefighting Measures**

- 5.1 Extinguishing media Foam, CO<sub>2</sub>, Dry Powder
- 5.2 Special hazards arising from the substance or mixture Combustion products: Carbon monoxide, Carbon dioxide, Smoke
- 5.3 Advice for fire fighters Do Not Use Water as extinguishing media. No special fire fighting equipment required.

### **SECTION 6: Accidental Release Measures**

6.1 Personal precautions, protective equipment and emergency procedures

Wear clothing suitable for an emergency

6.2 Environmental precautions

Contain the leak with earth or sand. Prevent from entering drains, sewers and water courses. If this cannot be done, advise the local authority.

6.3 Methods and materials for containment and clearing up

Absorb spillage onto sand or earth. Transfer to a suitable container for disposal.

### **SECTION 7: Handling and Storage**

7.1 Precautions for safe handling

Handle in a well ventilated area, away from sources of ignition, DO NOT SMOKE.

7.2 Conditions for safe storage, including any incompatibilities

Store in well-filled, tightly closed containers away from heat, light and sources of ignition.

7.3 Specific end uses

**Used in Flavours and Fragrances.** 

### **SECTION 8. Exposure Controls/Personal Protection**

8.1 Control parameters No data available

Substance 8 hour exposure limit	15 minute exposure limit	Source, Type
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#### DNELs for workers No data available

Exposure pattern	Route	DNEL	Dose descriptor
Acute - systemic effects	Dermal		
Acute - systemic effects	Inhalation		
Acute - local effects	Dermal		
Acute - local effects	Inhalation		
Long-term - systemic effects	Dermal		
Long-term - systemic effects	Inhalation		
Long-term - local effects	Dermal		
Long-term - local effects	Inhalation		

#### PNECs No data available

Compartment	PNEC	Dose descriptor
Fresh water		
Sewage treatment		

## 8.2 Exposure controls

Engineering controls - Use suitable handling equipment

Respiratory protection – Use only in well ventilated areas. Use protection in poor ventilation.

Hand Protection - Wear gloves

Eye protection – Wear goggles

Skin protection - Wear suitable protective clothing

## **SECTION 9: Physical and Chemical Properties**

### 9.1 Information on basic physical and chemical properties

**Appearance: Colourless crystals** 

Odour: Fresh, minty

Odour threshold: No data available

pH: Not applicable Melting point: 43°C Boiling point: 212°C Flashpoint: >100°C



Evaporation rate: No data available Flammability: Combustible

Upper/lower flammability limits: No data available

Vapour pressure: No data available Vapour density: No data available

Relative density: 0.89

Solubility in water: Sparingly soluble Solubility in other solvents: Soluble

Partition coefficient (log Kow): No data available Autoignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

**Oxidising properties: None** 

9.2 Other information

Particle size: Not applicable

### **SECTION 10: Stability and Reactivity**

- 10.1 Reactivity: Will react with oxidising agents
- 10.2 Chemical stability: Stable under proper storage conditions.
- 10.3 Possibility of hazardous reactions: Not if stored correctly
- 10.4 Conditions to avoid: Do not leave containers open to the air. Avoid storage at elevated temperatures and sources of ignition.
- 10.5 Incompatible materials: Oxidising agents
- 10.5 Hazardous decomposition products: On combustion may produce smoke, carbon monoxide and carbon dioxide.

### **SECTION 11: Toxicological Information**

### 11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

### **Toxicokinetics**

(a) acute toxicity: LD<sub>50</sub> 3180 mg/kg (Rat)

(b) skin corrosion/irritation: Causes skin irritation (c) serious eye damage/irritation: No data available

(d) respiratory/skin sensitisation: May cause an allergic skin reaction

(e) germ cell mutagenicity: No data available

(f) carcinogenicity: No data available

(g) reproductive toxicity: No data available (h) STOT-single exposure: No data available (i) STOT-repeated exposure: No data available

(j) aspiration hazard: No data available

### **SECTION 12: Ecological Information**

12.1 Toxicity: No data available

12.2 Persistence and degradability: No data available



- 12.3 Bioaccumulative potential: No data available
- 12.4 Mobility in soil: No data available
- 12.5 Results of PBT and vPvB assessment: No data available
- 12.6 Other adverse effects

### **SECTION 13: Disposal Considerations**

13.1 Waste treatment methods – Do not dispose into drainage systems. Ensure disposal is within local and national guidelines. Consult a specialist waste disposal company for correct disposal procedure and/or seek other expert advice.

### **SECTION 14: Transport Information**

	ADR	IMDG	ICAO
14.1 UN Number	No class		
14.2 UN Proper shipping	Menthol crystals		
name			
14.3 Transport hazard	No class	No class	No class
class(es)			
14.4 Packing group	No class		
14.5 Environmental			
hazards			
14.6 Special precautions			
for user			
14.7 Transport in bulk			
according to Annex II of			
MARPOL 73/78 and the			
IBC Code			

### **SECTION 15: Regulatory Information**

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

This substance is listed as existing in Europe

15.2 Chemical Safety Assessment

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

### **SECTION 16: Other Information**

**Revision information:** 

List of Abbreviations used in this SDS:

**CAS** Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008

DSD Dangerous Substances Directive 67/548/EEC

**DPD** Dangerous Preparations Directive 1999/45/EC

**EC** European Commnity/Commission

PBT Persistent, Bioaccumulative and Toxic



REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006

vPvB very Persistent, very Bioaccumulative

References: Food Cosmetics Toxicology 2 327 (1964)

The information in this safety data sheet is based on the properties of the material known to Madar Corporation Ltd at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. This document is not intended for quality assurance purposes.



# **SPECIFICATION**

# **MENTHOL CRYSTALS**

Chemical formula :  $C_{10}H_{20}O$ 

Botanical source : Mentha arvensis

Cas No. : 2216-51-5

FEMA No. : 2665

EINECS No. : 201-939-0

Appearance : Colourless crystals

Odour : Resembling that of peppermint

Appearance of solution : Complies with BP/Ph Eur

Identification : Complies with BP/Ph Eur

Acidity or alkalinity : Complies with BP/Ph Eur

Melting point : about 43<sup>o</sup>C

Specific optical rotation : -48° to -51°

Non volatile residue : Maximum 0.05% m/m

Related substances : Complies with BP/Ph Eur