



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 09-03-16
Version 1.0

MENTHOL NATURAL CRYSTALS

1. Identification of the substance/preparation and the company

Trade name: Menthol natural crystals
Utilization: Raw material for cosmetics
Supplier company: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, jud.Bihor, Romania
identification: Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: numar national pentru cazuri de urgenta: 021 3183606 Institutul de Sanatate Publica Bucuresti. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

Xi Irritant



R Phrases: R38 Irritating to skin.

EC regulation criteria 1272/2008 (CLP):

Warning, Skin Irrit. 2, Causes skin irritation. Warning, Eye Irrit. 2, Causes serious eye irritation. Warning, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Symbols:

Warning



Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements: None. Special Provisions: None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None. Other Hazards: No other hazards

3. Composition / Information on ingredients

3.1. Substances

Identification of the substance: MENTHOL NATURAL CRYSTALS

Chemical name: 1-Methyl-4-isopropyl cyclohexane-3-ol

CAS number: 2216-51-5 EC number: 218-690-9 REACH number: 01-2119458866-21

3.2. Mixtures N.A.

4. First Aid

4.1. Description of first aid measures

In case of skin contact: Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion: Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed: None

4.3. Indication of any immediate medical attention and special treatment needed: In case of accident or unwellness,



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seek medical advice immediately (show directions for use or safety data sheet if possible).

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Water, Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons: None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand.

6.3. Methods and material for containment and cleaning up: Wash with plenty of water.

6.4. Reference to other sections: See also section 8 and 13

7. Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed. Incompatible materials: None in particular.

Instructions as regards storage premises: Adequately ventilated premises.

7.3. Specific end use(s): None in particular

8. Exposure Controls and Personal Protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values: N.A. PNEC Exposure Limit Values: N.A.



8.2. Exposure controls

Eye protection: Avoid contact with eyes, use protective glasses. Operate according good working practices.

Protection for skin: No special precaution must be adopted for normal use. Wear apron or lab suit.

Protection for hands: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection: Not needed for normal use.

Thermal Hazards: None. Environmental exposure controls: None



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9. Physical and Chemical Properties

Appearance:	crystals, shapes hexagonal prism
Colour:	colourless, translucent
Odour:	very strong of mint
Melting point:	40 - 44°C
Boiling point:	> 200 °C
Flash point:	> 100 °C
pH value:	not relevant
Relative density:	aprox 0,89
Optical rotation:	- 49° / - 51°
Solubility in water:	not soluble
Solubility in oil:	miscible in warm oils
Solubility in alcohol:	soluble in ethanol
Partition coefficient (n-octanol/water):	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	not available
Explosive properties:	not available
Oxidizing properties:	not available

10. Stability and Reactivity

- 10.1. Reactivity: Stable under normal conditions
- 10.2. Chemical stability: Stable under normal conditions
- 10.3. Possibility of hazardous reactions: None
- 10.4. Conditions to avoid: Stable under normal conditions.
- 10.5. Incompatible materials: None in particular.
- 10.6. Hazardous decomposition products: None.

11. Toxicological Information

11.1. Information on toxicological effects

Toxicological information of the substance:

MENTHOL NATURAL CRYSTALS - CAS: 2216-51-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3300 mg/kg

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.



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12. Ecological Information

12.1. Toxicity: N.A.

Adopt good working practices, so that the product is not released into the environment.

12.2. Persistence and degradability: N.A.

12.3. Bioaccumulative potential: N.A.

12.4. Mobility in soil: N.A.

12.5. Results of PBT and vPvB assessment: vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects: None

13. Disposal Considerations

Waste treatment methods: Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. Transport Information

Land transport (ADR/RID): Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN) : Not relevant

Air transport (IATA): Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG): Not classified as dangerous in the meaning of transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: n/a

15. Additional Regulatory Information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP)

Regulation (EU) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation

(EC) 1907/2006 (REACH) and subsequent modifications: None

Where applicable, refer to the following regulatory provisions: Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

15.2. Chemical safety assessment: No

16. Other Information

Full text of H-Statements referred to above sections:

Eye Dam. - Serious eye damage

H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage.

Skin Irrit. - Skin irritation



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Full text of R-phrases referred to above sections:

Xi Irritant. R35 Causes severe burns. R38 Irritating to skin. R41 Risk of serious damage to eyes.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.

Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day.
(ACGIH Standard).

WGK: German Water Hazard Class.