

Safety Data Sheet

NMCR

Replaces date: 8/29/2022

Revision date: 8/29/2023

Version: 1.4.0

SECTION 1: Identification

1.1. GHS Product identifier

Trade name: NMCR

1.2. Recommended use of the chemical and restrictions on use

Recommended uses: Cleaner

1.3. Supplier's details

Supplier

Company: Mouldpro ApS
Address: Baltorpbakken 10
Zip code: 2750
City: Ballerup
Country: DENMARK
E-mail: sales@mouldpro.com
Phone: +45 70 20 31 31
Homepage: www.mouldpro.com

1.4. Emergency phone Number

+ 45 70 20 31 31 (Mouldpro) The emergency telephone is open between 8 a.m. and 4 p.m. on workdays.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification: Flammable liquids, Category 3;H226
Aspiration hazard, Category 1;H304
Skin irritation, Category 2;H315
Skin sensitization, Category 1;H317
Serious eye damage, Category 1;H318
Specific target organ toxicity - single exposure, Category 3;H335
Specific target organ toxicity - single exposure, Category 3;H336
Hazardous to the aquatic environment, short-term (Acute), Category 1;H400
Hazardous to the aquatic environment, long-term (Chronic), Category 1;H410

Most serious harmful effects: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication. Prolonged or repeated exposure by skin contact or inhalation of vapors may cause damage to the central nervous system. Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking. May cause chemical pneumonia if ingested or vomited.

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2.2. GHS label elements, including precautionary statements

Pictograms



Signal word: Danger

Contains

Substance: ethyl lactate; (R)-p-Mentha-1,8-diene; d-Limonene; 2-methylpropan-1-ol;

Hazard Statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+310+331 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338+310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P273 Avoid release to the environment.
P391 Collect spillage.

2.3. Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes
ethyl lactate	97-64-3 202-598-0	< 80 %	
(R)-p-Mentha-1,8-diene; d-Limonene	94266-47-4 304-459-3	< 80 %	
2-methylpropan-1-ol	78-83-1 201-148-0	< 50 %	

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Seek medical advice immediately.

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Skin contact:	Remove contaminated clothing. Seek medical advice in case of persistent discomfort. Wash skin with soap and water.
Eye contact:	Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
Burns:	Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
General:	Bring the safety data sheet or label when seeking medical advice.

4.2. Most important symptoms/effects, acute and delayed

Inhalation is irritating to the upper airways. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. Irritating to skin - may cause reddening. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication. Can be absorbed through the skin causing symptoms such as dizziness and headache. May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing. May cause chemical pneumonia if ingested or vomited. Prolonged or repeated exposure by skin contact or inhalation of vapors may cause damage to the central nervous system.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptoms. No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use a jet of water, as it may spread the fire.

5.2. Specific hazards arising from the chemical

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

5.3. Special protective actions for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and smoke gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit. Send contaminated extinguishing water for destruction.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment. Wear respiratory protective equipment. Wear safety goggles/face protection. Wear gloves.

For emergency responders: In addition to the above: Chemical protective suit is recommended.

6.2. Environmental precautions

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

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6.3. Methods and materials for containment and cleaning up

Contain and absorb spills using sand or other absorbent, non-combustible material and transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, drugs, etc. Do not expose to heat (e.g. sunlight). Store in a dry, cool, well-ventilated area. Keep in tightly closed original packaging. Do not store with the following: Strong oxidizers/ Strong acids/ Strong alkalis/ Peroxides. / Halogenated compounds. / vinyl chloride / Aluminium/ / Lead

7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: There are no official GHS occupational exposure limits. Be aware of possible national occupational exposure limits.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles/face protection.

Personal protective equipment, hand protection: Wear gloves. Type of material: Butyl rubber. Breakthrough time has not been determined for the product. Change gloves often. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Wear respiratory protective equipment. Filter type: A2AX

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
Physical state	Liquid
Color	Clear Colourless / Yellowish
Odour	Citrus

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Solubility	Partly soluble in the following: Water.
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Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	113 °C	
Flammability	No data	
Lower and upper flammability limit	No data	
Lower and upper explosion limit	No data	
Flash Point	38 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	~ 7 mmHg	(20 °C)
Density	No data	
Relative density	0.894	
Relative vapour density	~ 3	(Air=1)
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Evaporation rate	0.31	(nBuAc = 1)
VOC (Volatile organic compounds):	894 g/l , 97%	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidizers/ Strong acids/ Strong alkalis/ Peroxides. / Halogenated compounds. / vinyl chloride / Aluminium/ Lead

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Without a stabilizer, peroxides may form if the product is left standing for a long time or exposed to air, causing a risk of explosion.

10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight). Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Strong oxidizers/ Strong acids/ Strong alkalis/ Peroxides. / Halogenated compounds. / vinyl chloride / Aluminium/ Lead

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

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SECTION 11: Toxicological information

11.1. Information on health hazard classes

Acute toxicity - oral: The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. Ingestion may cause discomfort.

Acute toxicity - dermal: The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (vapours)		19513 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: Irritating to skin - may cause reddening.

Serious eye damage/eye irritation: Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

Respiratory sensitization or skin sensitization: May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: Inhalation is irritating to the upper airways. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication. Can be absorbed through the skin causing symptoms such as dizziness and headache.

Repeated STOT exposure: The product does not have to be classified. Test data are not available. Prolonged or repeated exposure by skin contact or inhalation of vapors may cause damage to the central nervous system.

Aspiration hazard: May cause chemical pneumonia if ingested or vomited.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Expected to be biodegradable.

12.3. Bioaccumulative potential

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No bioaccumulation expected.

12.4. Mobility in soil

Expected to be mobile in soil.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Avoid discharge to drain or surface water.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	1993	14.4. Packing group, if applicable:	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene: d-Limonene) (2-methylpropan-1-ol)	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	30	Tunnel restriction code:	D/E

Inland water ways transport (ADN)

14.1. UN number:	1993	14.4. Packing group, if applicable:	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene: d-Limonene) (2-methylpropan-1-ol)	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN number:	1993	14.4. Packing group, if applicable:	III
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14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene: d-Limonene) (2-methylpropan-1-ol)	14.5. Environmental hazards:	The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	(R)-p-Mentha-1,8-diene: d-Limonene
Hazard label(s):	3	IMDG Code segregation group:	- None -
Ems:	F-E, S-E		

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number:	1993	14.4. Packing group, if applicable:	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene: d-Limonene) (2-methylpropan-1-ol)	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		

14.6. Special precautions for user

None.

14.7. Transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Special Provisions: None.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.4.0	8/29/2023	Bureau Veritas HSE / DOL	2,16

Abbreviations:
PBT: Persistent, Bioaccumulative and Toxic
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with GHS Rev. 9 (2021).

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components. Test data.

SDS is prepared by

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