Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) amended by Commission Regulation (EU) 2020/878

Trade name :	THINNER Art. No. 0500		
Revision date :	21.07.2025	**Version (Revision) :**	3.0.0 (2.0.3)
Print date :	21.07.2025		

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

1.1 Product identifier

THINNER
Art. No. 0500
Unique formulation identifier (UFI): 5XC1-70VK-900V-KA5Q

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

Relevant identified uses

Application of the substance / the mixture:	Solvent and thinner and cleaner for painter's tools.
Recommended restrictions of use:	If used properly - none

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

BIOFA Naturprodukte W.Hahn GmbH

Street : Dobelstr.22

Postal code/city : D-73087 Bad Boll

Telephone : +49 (0) 7164-9405-0

Telefax : +49 (0) 7164-9405-94

Information contact :

E-mail address for information to the safety data sheet: biofa@info.de.

1.4 Emergency telephone number

During office time 7:00 to 15:30: +49 (0) 7164-9405-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5

Myrcen: CAS No.: 123-35-3

(+)-PIN-2(3)-ENE ; CAS No. : 7785-70-8

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.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water/....
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/national regulations

2.3 Other hazards

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Environmental information: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU)2018/605 in quantities of 0.1% or more.

Toxicological information: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU)2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; EC No. : 918-481-9; CAS No. : 64742-48-9 ; REACH registration No. : 01-2119457273-39

Weight fraction :	≥ 70 - < 80 %
Classification 1272/2008 [CLP] :	Asp. Tox. 1 ; H304

(R)-P-MENTHA-1,8-DIENE ; EC No. : 227-813-5; CAS No. : 5989-27-5

Weight fraction :	≥ 20 - < 25 %
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 Asp. Tox. 1, H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412
Myrcen: EC No.204-622-5 Weight fraction: Classification 1272/2008 (CLP):	CAS No.: 123-35-3 0,25-0,6% Flam. Liq. 3 ; H226 Asp. Tox. 1, H304 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 2 ; H411

(+)-PIN-2(3)-ENE ; EC No. : 232-087-8; CAS No. : 7785-70-8

Weight fraction :	≥ 0,1 - < 0,5 %
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1 ; H410 ATE: LD50 oral: 500 mg/kg

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Immediately remove all contaminated clothing.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If necessary remove contact lenses and continue to flush with plenty of clean, fresh water.

After ingestion

Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting. If vomiting occurs, be sure to avoid choking. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO2) Water spray Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

"Fire will produce dense black smoke. Exposure to danger decomposition products may cause a health hazard. " In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx)

5.3 Advice for firefighters

Use suitable breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Avoid inhalation of vapours. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates drains, lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Larger amounts have to be pumped out. Contain and collect small spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Wear anti-static footwear and clothing Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Use only antistatically equipped (spark-free) tools.
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).
Keep container tightly closed. Never use pressure to empty container. Keep/Store only in original container. Comply with health and safety regulations.
Do not allow to enter into surface water or drains.

Protective measures

Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Hints on joint storage

Keep away from: Alkali (lye). Acid Oxidizing agent

Storage class : 3

Storage class (TRGS 510) : 3

Further information on storage conditions

Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place. Protect against Heat. Frost Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition - No smoking. Only allow access to authorised staff.

7.3 Specific end use(s)

Solvent and thinner and cleaner for painter's tools.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	600 mg/cm³
Version :	

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	5 ppm / 28 mg/m³
Peak limitation :	4 (II)
Remark :	H, Sh, Y
Version :	17.10.2017

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation or good general extraction. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Safety data sheet of raw material suppliers or taken by accredited Laboratories or have been dertermined internally

Eye/face protection

Suitable eye protection : Eye glasses with side protection

Skin protection

After cleaning apply high-fat content skin care cream.

Hand protection

Tested protective gloves must be worn DIN EN 374
Breakthrough times and swelling properties of the material must be taken into consideration.

By long-term hand contact Suitable material : Butyl caoutchouc (butyl rubber)

Thickness of the glove material : 0,7 mm
Breakthrough time (maximum wearing time) : > 480 min.

By short-term hand contact Suitable material : NBR (Nitrile rubber)
Thickness of the glove material : 0,4 mm
Breakthrough time (maximum wearing time) : > 120 min.

Body protection

Personnel should wear impermeable and antistatic protective work clothing.
Recommended material : Natural fibres (e.g. cotton) , heat-resistant synthetic fibres

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values , insufficient ventilation insufficient exhaust prolonged exposure aerosol or mist formation.
Suitable respiratory protection apparatus
Combination filtering device (EN 14387) , Particle filter device (DIN EN 143).
Self-contained respirator (breathing apparatus) (DIN EN 133)
Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)
Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid:

Colour : colourless , clear

Odour

Lemon.

Odour threshold

Not determined

Safety relevant basis data

Melting point/melting range :			No data available		
Initial boiling point and boiling range :	(1013 hPa)	approx.	120	°C	
Decomposition temperature :			No data available		
Flash point :			56	°C	DIN EN ISO 1523
Ignition temperature :		>	200	°C	
Lower explosion limit :		approx.	0,6	Vol-%	
Upper explosion limit :		approx.	7	Vol-%	
Vapour pressure :	(50 °C)	approx.	2,3 - 4	hPa	
Density :	(20 °C)		0,795 - 0,804	g/cm³	DIN 53217
Solvent separation test :	(20 °C)	<	100	%	
Water solubility :	(20 °C)		insoluble		
pH :			not applicable		

Flow time:	(20 °C)	<	20	s	DIN-Cup 3mm
Flow time :	(20 °C)	<	15	s	DIN-cup 4 mm
Cinematic viscosity :	(40 °C)	<	21	mm^2/s	
Solvent content :			100	Wt %	
Maximum VOC content (EC) :			100	Wt %	
Maximum VOC content (Switzerland) :			100	Wt %	

Self-ignition: Product is not self-igniting.
Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Relative density: Not determined
Vapour density: Not determined
Evaporation rate: Not determined
N-octanol-water partition coefficient: Not determined

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactivity under recommended usage, handling and storage.

10.2 Chemical stability

Stable under recommended usage, storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

10.4 Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 Incompatible materials

Alkali (lye). Acid Oxidizing agent.

10.6 Hazardous decomposition products

By combustion and thermal decomposition at high temperatures, the following chemicals can be produced: Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx). carbon black.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Exposure route :	Oral

Species : Rat
Effective dose : 4400 mg/kg
May be fatal if swallowed and enters airways.

Acute dermal toxicity

Parameter : LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg
Parameter : LD50 ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Exposure route : Inhalation
Species : Rat
Effective dose : > 49510 mg/m^3
Exposure time : 4 h

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
The product is: irritant.

Irritation to eyes

Parameter : Irritation to eyes (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
The product is: irritant.

Irritation to respiratory tract

Parameter : Irritation to respiratory tract (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
The product is: Not an irritant.

Sensitisation

May cause sensitization by skin contact.
May cause an allergic skin reaction.

Repeated dose toxicity (subacute, subchronic, chronic)

Not classified according to the available information.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Not classified according to the available information.

Germ cell mutagenicity

Not classified according to the available information.

Reproductive toxicity
Not classified according to the available information.
Specific target organ toxicity at single exposure
Not classified according to the available information.
Aspiration toxicity
Not classified according to the available information.

11.2 Information on other hazards
Product:
Assessment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity
H411 - Toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter :	LC50 ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	0,7 mg/l
Exposure time :	96 h

Acute (short-term) daphnia toxicity

Parameter :	EC50 ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	0,4 mg/l
Exposure time :	48 h

Chronic (long-term) algae toxicity

Parameter :	NOEC ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Species :	Chronic (long-term) algae toxicity
Evaluation parameter :	Chronic (long-term) algae toxicity
Effective dose :	4 mg/l
Exposure time :	96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No indication of bioaccumulation potential.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
Product:
Assessment: This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Other adverse effects
Product:

Assessment: The substance/mixture does not contain any constituents that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

12.7 Additional ecotoxicological information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not allow to enter into surface water or drains.

Product/Packaging disposal

Wastes and empty containers must be classified in accordance with the Waste Catalogue Ordinance.

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11*

Waste name

Waste paint and varnish containing organic solvents or other dangerous substances.

Waste code packaging

15 01 10*

Waste name

Packaging containing residues of or contaminated by dangerous substances.

Non-contaminated packages may be recycled.
Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

14.1 UN number

UN 2052

14.2 UN proper shipping name

Land transport (ADR/RID)

Generated

Sea transport (IMDG)

Generated

Air transport (ICAO-TI / IATA-DGR)

Generated

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) :	3
Classification code :	F1
Hazard identification number (Kemler No.) :	30
Tunnel restriction code :	D/E
Special provisions :	LQ 5 l · E 1
Hazard label(s) :	3 / N

Sea transport (IMDG)

Class(es) :	3

EmS-No. : F-E / S-E
Special provisions : LQ 5 l · E 1
Hazard label(s) : 3 / N

Air transport (ICAO-TI / IATA-DGR)
Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group
III

14.5 Environmental hazards
Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

14.8 Additional information
none

SECTION 15: Regulatory information

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

REACH restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles and articles (Annex XVII)	: none
REACH - List of substances qualifying for authorisation especially Substances of very high concern (Article 59)	: This product is a mixture which not a substance of very high concern (SVHC) ontains greater than or equal to 0.1%, therefore no permitted end uses need to be defined and no chemical safety assessments need to be carried out.
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: no(er)
Seveso III Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	: Petroleum products and alternative fuels a) petrol and naphtha b) paraffin, including jet fuel c) gas oils (including diesel fuel, light fuel oil and gasoil blending streams) d) heavy fuel oils e) alternative fuels serving the same purposes and having similar flammability and environmental hazard characteristics as the products referred to in points (a) to

(d).

List of ingredients according to detergent regulation 648/2004/EC

Aliphatic and cycloaliphatic hydrocarbon mixtures
CITRUS AURANTIUM DULCIS SHELL OIL EXPOSED (orange terpene)
Allergens
(R)-P-MENTHA-1,8-DIEN
(+)-PIN-2(3)-EN

National regulations

Restrictions of occupation
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Major Accidents Ordinance

Not subject to StörfallVO.

Technical Instructions on Air Quality Control (TA-Luft)

Weight fraction (Number 5.2.5. II) : 70 - 75 %

Water hazard class (WGK)

Class : 2 (clearly hazardous to water) Classification according to AwSV Annex 1 (5.2)

Other regulations, restrictions and prohibition regulations

Ordinance on Industrial Safety and Health (BetrSichV).

Classification according to the Ordinance on Industrial Safety and Health (BetrSichV) : flammable

Volatile organic compounds

< 100 %
< 802 g/l

Directive 2004/42/EC (31st BImSchV/Chem VOC-FarbV)

VOC product category : Not applicable
VOC subcategory of the product : Not applicable
VOC limit value step II (g/L), ready-to-use condition : Not applicable
Maximum VOC content (g/L) of the product in a ready to use condition : Not applicable

Additional information

Giscode : M-VM01 + M-VM05

15.2 Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

16.1 Indication of changes

1.4 Emergency telephone number ● 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] ● 03. Hazardous ingredients ● 11. Toxicological information ● 12. Environmental information ● 15. Regulatory information ● 16. Other information

16.2 Abbreviations and acronyms

Acute Tox.	Akute Toxizität
ADR	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road – Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße

Aquatic Acute	Akute aquatische Toxizität
Aquatic Chronic	Chronische aquatische Toxizität
Asp. Tox.	Aspirationsgefahr
AVV	Abfallverzeichnis-Verordnung
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BImSchV	Verordnung zur Durchführung des Bundesimmissionsschutzgesetzes
CAS	Chemical Abstracts Service – Gesellschaft für die Vergabe von CAS-Nummern
CLP	Classification, Labelling and Packaging (Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen)
CMR	carcinogen, mutagen, reproduktionstoxisch (krebserzeugend, erbgutverändernd, fortpflanzungsgefährdend)
DIN	Deutsches Institut für Normung
EAK	Europäischer Abfallkatalog
EC50	Mittlere effektive Konzentration
EN	Europäische Norm
EU	Europäische Union
EUH	Europäische Gefahrenhinweise
Eye Dam.	Schwere Augenschädigung
Eye Irrit.	Augenreizend
Flam. Liq.	Entzündbare Flüssigkeit
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (Global Harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien)
hPa	Hectopascal
IATA-DGR	International Air Transport Association –Dangerous Goods Regulations (Gefahrgutvorschriften der Internationalen Flug-Transport-Vereinigung)
ICAO-TI	International Civil Aviation Organization-Technical Instructions (Technische Anleitungen für den sicheren Transport von Gefahrgütern in der Luft der zivilen Luftfahrtgesellschaft)
IC50	Halbmaximale Hemmstoffkonzentration
IMDG	International Maritime Code for Dangerous Goods (Internationaler Code für Gefahrgüter auf See
ISO	Internation Standards Organization (Internationale Organisation für Normung)
LC50	Lethal concentration, 50 percent (Lethale Konzentration für 50% einer Versuchspopulation)
LD50	Lethal dose, 50 percent (Lethale Dosis für 50% einer Versuchspopulation)
LQ	Limited Quantities (begrenzte Mengen)
MAK	Maximale Arbeitsplatzkonzentrationswerte gesundheitsgefährdender Stoffe
Met. Corr.	Korrosiv gegenüber Metallen
NOEC	No Observed Effect Concentration (Tierexperimentell festgelegte höchste Konzentration, bei der keine Wirkung – schädigender Effekt – mehr nachweisbar ist)
PBT	Persistent, Bioaccumulative and Toxic (persistent, bioakkumulierbar und toxisch)
RCP	Reciprocal Calculation-based Procedure (Methode zur Berechnung von Arbeitsplatzgrenzwerten von Kohlenwasserstoffgemischen
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Verordnung (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)
RID	Reglement concernant le transport International ferroviaire de marchandises Dangereuses (Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr)
Skin Corr.	Hautätzende Wirkung
Skin Irrit.	Hautreizende Wirkung
Skin Sens.	Sensibilisierung durch Hautkontakt
STOT RE	Spezifische Zielorgan-Toxizität – wiederholte Exposition
STOT SE	Spezifische Zielorgan-Toxizität – bei einmaliger Exposition
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations (Vereinte Nationen)
VbF	Verordnung über brennbare Flüssigkeiten (Österreichische Verordnung)
VOC	Volatile Organic Compounds (flüchtige organische Verbindungen)
vPvB	very Persistent and very Bioaccumulative (sehr persistent und sehr bioakkumulierbar)
WGK	Wassergefährdungsklasse (German Water Hazard Class)

Siehe auch Übersichtstabellen unter www.euphrac.com oder http://abk.esdscom.eu

16.3 Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the current version.
Transport regulations according ADR, RID, IMDG, IATA in the current version.
Safety data sheet taken from raw material suppliers or taken by accredited Laboratories or have been dertermined internally

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification and evaluation was carried out by the calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

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.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.