



Turpentine

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 9-2-2009 Revision date: 3-9-2020 Supersedes: 20-5-2015 version: 7.1

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

1.1. Product identifier

Product form : Mixture
Product name : Turpentine
EC-No. : 919-446-0
REACH registration No : 01-2119458049-33
Product code : 75000

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : Non-dispersive use
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company
Cyclotronweg 1
2629 HN Delft Delft - Nederland
T +31 (0)15 2514030 - F +31 (0)15 2514031
msds@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Specific target organ toxicity — Repeated exposure, Category 1 H372
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

CLP Signal word

: Danger.

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Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure (inhalation). H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P310 - Immediately call a doctor, a POISON CENTER. P331 - Do NOT induce vomiting. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents and container to an approved waste disposal plant.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
Extra phrases	: Restricted to professional users.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	(CAS-No.) 647-42-82-1 (EC-No.) 919-446-0 (REACH-no) 01-2119458049-33	≤ 100	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General	: Remove/Take off immediately all contaminated clothing. If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.
After inhalation	: Remove person to fresh air and keep comfortable for breathing. Keep victim warm and rested. In case of respiratory tract irritation, consult a physician.
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Rub greasy ointment into the skin.
After eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
After ingestion	: Do NOT induce vomiting. Get immediate medical advice/attention. Rinse mouth out with water. Never give anything by mouth to an unconscious person. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.

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

After inhalation	: High concentration of vapours may induce: headache, nausea, dizziness.
After skin contact	: Skin corrosion/irritation:
After eye contact	: No irritant effect.
After ingestion	: Harmful: may cause lung damage if swallowed.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂). Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: May form flammable/explosive vapour-air mixture.
Explosion hazard	: Vapours may form explosive mixtures with air.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.

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5.3. Advice for firefighters

- Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.
- Other information : Do not allow water used to extinguish fire to enter drains or waterways. Move undamaged containers from immediate hazard area if it can be done safely. Extinguishing materials should be selected according to the surrounding area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Plug the leak, cut off the supply. Remove ignition sources. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ensure adequate ventilation, especially in confined areas. Concerning personal protective equipment to use, see section 8.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing and eye/face protection. Wear recommended personal protective equipment.

6.1.2. For emergency responders

- Protective equipment : Wear respiratory protection. Wear suitable protective clothing and gloves. Use personal protective equipment as required.

6.2. Environmental precautions

Do not flush into surface water or sewer system. Notify authorities if liquid enters sewers or public waters. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Collect all waste in suitable and labelled containers and dispose according to local legislation.
- Other information : Ensure adequate ventilation.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Wear breathing apparatus if exposed to vapours/dusts/aerosols. Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Proper grounding procedures to avoid static electricity should be followed. Wear anti-static discharges clothing and shoes. Foresee ground with earth. Use only antistatically equipped (spark-free) tools. Vapours / aerosols should be extracted by suction directly at point of origin. Use only in well-ventilated areas. Shafts and sewers must be protected from permeation of the product. This product is not to be used under conditions of poor ventilation.
- Precautions for safe handling : Provide adequate ventilation. Keep away from heat and direct sunlight. Do not eat, drink or smoke when using this product. Do not spray on an open flame or other ignition source. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours. Use of mobile phones prohibited. Provide sufficient air exchange and/or exhaust. Wear anti-static discharges clothing and shoes. Foresee ground with earth. Only use anti-static equipped (spark-free) tools. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Shafts and sewers must be protected from permeation of the product.
- Hygiene measures : Wash hands before breaks and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Store in a well-ventilated place. Keep container tightly closed.
- Information on mixed storage : Oxidizing agents.
- Storage area : Keep container tightly closed in a cool, well-ventilated place. Ensure adequate ventilation of the storage area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Technical measures:

Ensure good ventilation of the work station.

Personal protective equipment:

Protective clothing. Gloves. Protective goggles.

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Materials for protective clothing:					
Chemical resistant safety shoes. Wear anti-static footwear and clothing. Overall. Lab apron.					
Condition	Material				Standard
Antistatic clothing	Natural fibres, Heat-resistant synthetic fibres				
Hand protection:					
When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.45		EN ISO 374
Eye protection:					
Tightly sealed safety glasses.					
Skin and body protection:					
Wear suitable protective clothing.					
Respiratory protection:					
In case of inadequate ventilation wear respiratory protection.					
Device	Filter type	Condition		Standard	
	Filter respirator with filter or ventilator type: Type A, brown	In the event of insufficient ventilation:		EN 12942	

Personal protective equipment symbol(s):



Other information:

Always wash hands after handling the product. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: colourless. Yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -30 °C
Freezing point	: No data available
Boiling point	: 135 – 220 °C
Flash point	: > 40 °C
Auto-ignition temperature	: ≈ 200 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0,37 kPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 785 g/l
Solubility	: Water: not miscible
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Flammable or explosive vapour/air mixtures may be formed.

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Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0,6 vol %
Upper explosive limit (UEL)	: 7 vol %

9.2. Other information

VOC content	: 772 g/l
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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Oxidizing agents.

10.5. Incompatible materials

acids and bases. Oxidizing agent.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (647-42-82-1)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	3400 mg/kg
LC50 Inhalation - Rat	13,1 mg/l @4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs (central nervous system) through prolonged or repeated exposure (inhalation).

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (647-42-82-1)

NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
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Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

General	: Do not allow uncontrolled leakage of product into the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (647-42-82-1)

EC50 72h algae (1)	4,6 – 10 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h algae (2)	0,53 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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EC50 96h algae (1)	1,2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h algae (2)	0,58 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (647-42-82-1)

Biodegradation	> 69 % @28D
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

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Soil	Prevent soil and water pollution.
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Danger of drinking-water pollution (ground water). Do not empty into drains or the aquatic environment.


SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Waste disposal according to official state regulations.
Waste materials	: Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to official state regulations.
European List of Waste (LoW) code	: 14 06 03* - other solvents and solvent mixtures

SECTION 14: Transport information

In accordance with ADR

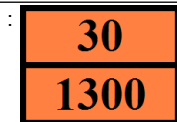
ADR	
14.1. UN number	UN 1300
14.2. UN proper shipping name	TURPENTINE SUBSTITUTE
Transport document description	UN 1300 TURPENTINE SUBSTITUTE, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	3 
14.4. Packing group	III
14.5. Environmental hazards	Dangerous for the environment : Yes
No supplementary information available	
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 5I
Transport category (ADR)	: 3
Hazard identification number (Kemler No.)	: 30

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Orange plates



Tunnel restriction code (ADR)

: D/E

EAC code

: 3YE

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content

: 772 g/l

Other information, restriction and prohibition regulations

: Dit product bevat Zeer Zorgwekkende Stof(fen) zoals opgenomen in het arbeidsomstandighedenbesluit en/of het Activiteitenbesluit (<http://www.rivm.nl/rvs/>), Cas nr 647-42-82-1.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.