

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 30.10.2024

Version number 1

Revision: 30.10.2024

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

· 1.1 Product identifier

· **Trade name:** MDF Turpentine

· **EC number:**

932-349-8

· **Registration number** 01-2119553060-53-X

· **UFI:** Not applicable. Annex VII of the CLP Regulation does not apply.

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

No further relevant information available.

· **Application of the substance / the mixture**

Formulation of odourants and odour end products

Intermediate

Industrial end use of detergents and cleaning agents

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Fiberboard GmbH

An der Birkenpfehlheide 4

D-15837 Baruth/Mark

Deutschland

Tel. +49 33704 609-00

info@fiberboard.de

<https://classengroup.com/>

· **Informing department:**

Gefahrstoffmanagement

Tel. +49 33704 609-00

· 1.4 Emergency telephone number:

Gift-Informationszentrum Nord, Göttingen

Poison Information Center, Göttingen

Tel.: +49 (0)551 19240

(German and English only)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3

H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07

Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H312 Harmful in contact with skin.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:

Gum turpentine oil

Hazard statements

H226	Flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
H411	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.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**

- **CAS No. Designation:**

Gum turpentine oil

- **Identification number(s):**

- **EC number:** 932-349-8

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information**

Instantly remove any clothing contaminated by the product.

If symptoms occur or in case of doubt consult a doctor.

- **After inhalation**

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

- **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

In case of permanent aches and pains please go and see the doctor.

Remove contaminated clothing immediately.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

- **After eye contact**

Rinse opened eye for several minutes under running water. Remove contact lenses if necessary and possible. Continue rinsing. Call a doctor immediately.

- **After swallowing**

Do not induce vomiting; instantly call for medical help.

Rinse out mouth with water.

Do NOT induce vomiting in order to prevent an invasion into the lungs.

A person vomiting while lying on their back should be turned onto their side.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Danger**

In case of ingestion or vomiting product may enter the lung.

Aspiration may cause pulmonary oedema and pneumonitis.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents**

Water with a full water jet.

The use of a water jet may cause the fire to spread by splashing the burning product.

- **5.2 Special hazards arising from the substance or mixture**

Inhalation of combustion gases may cause serious health hazards.

During incomplete combustion carbon monoxide can be formed.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained breathing apparatus.

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Wear protective clothing.

· Additional information

Remove goods in stock from incendiary zone, if possible.

Use water to keep fire exposed containers cool.

Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from ignition sources

Use breathing protection against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

· For non-emergency personnel

No flares, smoking or flames in hazard area.

Avoid contact with the product.

Immediately contact emergency personnel.

· For emergency responders Wear protective equipment. Keep unprotected persons away.**· 6.2 Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.

Do not allow to enter the ground/soil.

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Small spill:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

Large spill:

Stop leak if without risk.

Pump into suitable containers.

Should larger amounts of liquid run out stem it and dispose it of.

Pick up and transfer to properly labeled containers.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage**· 7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Avoid the formation of inflammable and explosive solvent vapours in the air and prevent the maximum workplace concentration values from being exceeded.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep away from heat, sparks and open flames.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

· Handling

Wear suitable protective clothing at work.

Ensure good ventilation/exhaustion at the workplace.

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- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:**
Ensure sufficient ventilation.
 - **Suitable material for containers:**
Stainless steel
Aluminium
 - **Unsuitable material for container:**
Certain plastics and elastomers may not be compatible with the product. Test or get packaging manufacturers recommendation prior to use.
 - **Information about storage in one common storage facility:**
Keep away from strong oxidizing, alkalis and acidic materials.
 - **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

Gum turpentine oil

Oral	DNEL (consumer, long-term, systemic)	0.3 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	0.84 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.3 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	2.96 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	0.522 mg/m ³ (human)

· **PNECs**

Gum turpentine oil

PNEC aqua (freshwater)	0.03 mg/L (.)
PNEC aqua (marine water)	0.003 mg/L (.)
PNEC STP - Sewage Treatment Plant	6.6 mg/L (.)
PNEC soil	1.53 mg/kg soil dw (.)
PNEC sediment (freshwater)	7.75 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.775 mg/kg sedim. dw (.)
PNEC oral	4 mg/kg food (.)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
 - **Appropriate engineering controls** Ensure adequate ventilation, especially in closed rooms.
 - **Individual protection measures, such as personal protective equipment**
 - **General protective and hygienic measures** Wash hands during breaks and at the end of the work.
 - **Breathing equipment:**
Not necessary if room is well-ventilated.
Use breathing protection in case of insufficient ventilation.
Filter Type A.

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· Hand protection



Use gloves of stable material (i.e. nitril rubber).

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

As long as there is no special risk to damage the glove, a material thickness of 0,4 mm will be sufficient.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Safety goggles according to EN 166.

· **Body protection:** Solvent resistant protective clothing· **Risk management measures** Provide eyewash station and safety shower.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· **Colour:**

Light yellow

· **Odour:**

resinous

terpene-like

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

157 - 204 °C (DIN EN ISO 3405 :2019)

· **Lower and upper explosion limit**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

41 °C (DIN EN ISO 2719 :2021)

· **Auto-ignition temperature:**

253 °C (Gum turpentine oil)

· SADT

· **pH**

Mixture is non-polar/aprotic.

· **Viscosity:**· **Kinematic viscosity at 40 °C**

1.18 mPas (DIN EN ISO 3104 :2021)

· **dynamic:**

Not determined.

· **Solubility**· **Water at 20 °C:**

0.0255 g/l

· **Partition coefficient n-octanol/water (log value)**

0.65225

· **Vapour pressure at 20 °C:**

2.1 kPa (ASTM D6378 :2022)

· **Density and/or relative density**· **Density at 15 °C**~ 870 kg/m³ (DIN EN ISO 12185 :1997)

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· 9.2 Other information**· Appearance:****· Form:**

Fluid

· Important information on protection of health and environment, and on safety.**· Self-inflammability:**

Product is not selfigniting.

· Explosive properties:

Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· Change in condition**· Softening point/range****· Pour point:**

< -40 °C (DIN EN ISO 3016 :2017)

· Cloud point / clarification point:

- 84 °C (DIN EN ISO 3015 :2019)

· Information with regard to physical hazard classes**· Explosives**

Void

· Flammable gases

Void

· Aerosols

Void

· Oxidising gases

Void

· Gases under pressure

Void

· Flammable liquids

Flammable liquid and vapour.

· Flammable solids

Void

· Self-reactive substances and mixtures

Void

· Pyrophoric liquids

Void

· Pyrophoric solids

Void

· Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable gases in contact with water

Void

· Oxidising liquids

Void

· Oxidising solids

Void

· Organic peroxides

Void

· Corrosive to metals

Void

· Desensitised explosives

Void

SECTION 10: Stability and reactivity**· 10.1 Reactivity** No further relevant information available.**· 10.2 Chemical stability**

The product is stable under normal handling and storage conditions (see section 7).

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known**· 10.4 Conditions to avoid**

All sources of ignition: heat, sparks, open flame, electrostatic discharges.

Prolonged or excessive heat and/or exposure to air may cause non-hazardous decomposition and/or oxidation of the substance.

· 10.5 Incompatible materials: Avoid contact with strong oxidizing agents.**· 10.6 Hazardous decomposition products:**

None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information**· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****· Acute toxicity**

Harmful if swallowed, in contact with skin or if inhaled.

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· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	> 500 mg/kg (Rat)
Dermal	LD50	1,100 mg/kg
Inhalative	LC50	13.7 mg/l/4h (Rat)

Gum turpentine oil

Oral	LD50	> 500 mg/kg (Rat) (OECD 423)
Dermal	LD0	> 2,000 mg/kg (Rat) (OECD 402)
Inhalative	LC50	13.7 mg/l/4h (Rat) (OECD 403)
		Vapour

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard**

May be fatal if swallowed and enters airways.

· **Additional toxicological information:**

· **Repeated dose toxicity**

Gum turpentine oil

Oral	NOAEL (90d)	942 mg/kg bw/day (Rat) (OECD 408)
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· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

Substance is not listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

Gum turpentine oil

EC50 (static)	8.8 mg/l/48h (Daphnia magna) (OECD 202)
LC50	29 mg/l/96h (Danio rerio) (OECD 203)
EC50	17.1 mg/l/72h (Desmodesmus subspicatus) (OECD 201)

· **12.2 Persistence and degradability** No further relevant information available.

· **Other information:** Not established.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects** No further relevant information available.

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- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
The waste code numbers mentioned are recommendations based on the probable use of the product.





- **European waste catalogue**

HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity
HP13	Sensitising
HP14	Ecotoxic

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR/RID, IMDG, IATA 	UN1299
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR/RID · IMDG · IATA 	1299 TURPENTINE, ENVIRONMENTALLY HAZARDOUS TURPENTINE, MARINE POLLUTANT TURPENTINE
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID 	
 	
<ul style="list-style-type: none"> · Class · Label 	3 (F1) Flammable liquids. 3
<ul style="list-style-type: none"> · IMDG 	
 	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3

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· IATA 	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR/RID, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR/RID):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E,S-E A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR/RID · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1299 TURPENTINE, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** Substance is not listed.
 - **Seveso category**
 - E2 Hazardous to the Aquatic Environment
 - P5c FLAMMABLE LIQUIDS
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements**
 - P5a: 10 t
 - P5b: 50 t
 - P5c: 5.000 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements**
 - P5a: 50 t
 - P5b: 200 t
 - P5c: 50.000 t

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- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

- **Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Decree to be applied in case of technical fault:**

Critical quantity values according to the regulations on accidents should be adhered to.

- **Water hazard class:** Water hazard class 2 (Assessment by list): hazardous for water.

- **Substances of very high concern (SVHC) according to REACH, Article 57**

Substance is not listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

- **Department issuing data specification sheet:**



This Safety Data Sheet has been drawn up in cooperation with:
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- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

ICAO: International Civil Aviation Organisation

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

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

EU
