

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70010 Pine Turpentine

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Revised edition: 13.04.2022

Version: 5

Printed: 22.11.2022

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Pine Turpentine

Article No.: 70010

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Oil essence, odorous substance

Uses advised against:
none

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

Flammable liquids, hazard category 3
Acute toxicity (oral), hazard category 4
Aspiration hazard, hazard category 1
Acute toxicity (dermal), hazard category 4
Skin irritation, hazard category 2
Skin sensitization, hazard category 1
Eye irritation, hazard category 2
Acute toxicity (inhalation), hazard category 4
Chronic aquatic toxicity, hazard category 2

H226 Flammable liquid and vapour.

Cat.: 3
H302 Harmful if swallowed.

Cat.: 4
H304 May be fatal if swallowed and enters airways.

Cat.: 1
H312 Harmful in contact with skin.

Cat.: 4
H315 Causes skin irritation.

Cat.: 2
May cause an allergic skin reaction.

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H317	
Cat.: 1	
H319	Causes serious eye irritation.
Cat.: 2	
H332	Harmful if inhaled.
Cat.: 4	
H411	Toxic to aquatic life with long lasting effects.
Cat.: 2	

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

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

Hazard designation:



GHS02



GHS07



GHS08-2



GHS09

Signal word:

Danger

Hazard designation:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Safety designation:

P260c	Do not breathe vapours.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P310	If swallowed: Immediately call a poison center or physician.
P302+P352	If on skin: Wash with soap and water.
	Do not induce vomiting.

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P331

P333+P313

P501

If skin irritation or rash occurs: Get medical attention.

Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

Turpentine, oil

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Turpentine Oil

Information on Components / Hazardous Ingredients:

Turpentine oil (H226-302-304-312-315-317-319-332-411); REACH Reg. No. 01-2119553060-53-0007 <= 100 %

CAS-Nr: (8006-64-2)

EINECS-Nr: 932-349-8 (232-350-7)

EC-Nr: 650-002-00-6

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Remove contaminated clothes immediately.

Take person away from hazardous area.

Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.

Consult physician.

After inhalation:

Supply fresh air. If required give artificial respiration. In case of complaints or unconsciousness consult a physician. In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Wash off with plenty of water and soap. Consult a physician if irritation persists.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes. Consult physician.

After ingestion:

Rinse mouth with plenty of water and consult physician.

Do NOT induce vomiting. Risk of aspiration! Consult physician immediately.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Swallowing: may be fatal if swallowed and enters the respiratory

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system.
Can cause allergic reactions.

Effects:

Harmful

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, CO2, dry extinguishing powder.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Flammable.

In case of fire: formation of organic crack products and carbon oxides.

Fumes can form an explosive mixture with air.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear suitable protective clothing.

Further information:

Cool closed containers exposed to fire with water mist.

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

Provide adequate ventilation. Keep away from sources of ignition.

Avoid contact with eyes and skin.

Do not inhale aerosol/fumes/vapors.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.

Remove all sources of ignition. Only use anti-static equipped

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(spark-free) tools.

6. 4. Reference to other Sections

Protective clothing, see Section 8.

See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Avoid contact with eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.

Hygienic measures:

Take off contaminated clothing immediately.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

A nearby eyewash facility should be available for emergencies.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store the product in the original tightly sealed containers in a dry and cool place.

Protect against heat.

Protect from direct exposure to light.

Do not store together with strong acids and oxidants.

Accessible for authorized persons only.

Requirements for storage areas and containers:

Store in a room with a solvent-proof floor.

Unsuitable container material: plastics can be attacked.

Information on fire and explosion protection:

Do not store together with combustible and self-ignitable products.

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Use only explosion protected devices.

Contaminated cleaning rags and cloths, and protective clothing may ignite spontaneously after several hours.

Storage class:

3; Flammable liquids (TRGS 510)

Further Information:

7. 3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

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8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Turpentine oil (CAS 8006-64-2): TWA: 8.2 mg/m³, 2 ppm (long-term value); 16.4 mg/m³, 4 ppm (short-term value)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Turpentine oil:

161 µg/cm² (worker, skin contact, short-term exposure)

5.98 mg/m³ (worker, inhalation, long-term exposure)

81 µg/cm² (consumer, skin contact, short-term exposure)

0.31 mg/kg bw/d (consumer, swallowing, long-term exposure)

1.06 mg/m³ (consumer, inhalation, long-term exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Turpentine oil (CAS 8006-64-2):

Fresh water: 8.8 µg/l

Sea water: 0.88 µg/l

Fresh water sediment: 2.27 mg/kg dw

Sea water sediment: 0.227 mg/kg dw

Oral (secondary poisoning): 1.35 mg/kg (feed)

Sewage treatment system (STP): 6.6 mg/l

Soil: 0.45 mg/kg

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Ensure adequate ventilation, especially in confined areas.

Facilities storing or utilizing this material should be equipped with an eyewash facility.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.

Do not inhale gas/fumes/vapor/aerosol.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter type A.

Hand protection:

Protective gloves

The manufacturer's directions for use should be observed because of the great diversity of types.

Protective glove material:

Nitrile rubber (> 480 min, 0.11 mm).

Eye protection:

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Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

*Prevent contamination of open water ways and sewage system.
Avoid contamination of ground water.*

Contact local authorities if large spillages cannot be contained.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>mineral spirit odor</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>-60°C</i>
<i>Boiling temperature:</i>	<i>154 - 170°C</i>
<i>Flash point:</i>	<i>34°C</i>
<i>Evaporation rate:</i>	<i>21.6 (Ether=1)</i>
<i>Flammability (solid, gas):</i>	<i>ca. 220°C</i>
<i>Upper explosion limit:</i>	<i>6.1 Vol.-%</i>
<i>Lower explosion limit:</i>	<i>0.7 Vol.-%</i>
<i>Vapor pressure:</i>	<i>5.19 hPa (20°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>0.867 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>practically insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>4.49 logPOW (25°C; OECD 117)</i>
<i>Auto-ignition temperature:</i>	<i>225°C (1013 hPa)</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>1.3 mPa.s (25°C)</i>
<i>Explosive properties:</i>	<i>not available</i>
<i>Oxidizing properties:</i>	<i>no information available</i>

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Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

*Formation of explosive vapor-air-mixtures possible.
Heating leads to an increase of pressure and risk of bursting.*

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat, open fire and other ignition sources.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

*Strong acids and strong oxidizing agents.
Contaminated cleaning rags and cloths, and protective clothing
may ignite spontaneously after several hours.*

10.6. Hazardous Decomposition Products

*In case of fire: formation of organic crack products and carbon
oxides.*

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral: 3956 mg/kg (rat)

LD50, dermal: > 2000 mg/kg (rabbit)

*LC50, inhalation: 13.7 mg/l (4h, rat; OECD 403)
29 mg/l (2h, mouse; OECD 403)*

Primary effects

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Irritant effect on skin:

Irritating (rabbit)

Irritant effect on eyes:

Irritating effect (rabbit).

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

May cause allergic skin reactions.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No information available.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other Hazards

Harmful. Irritating.

Skin contact: risk of skin absorption.

May cause an allergic skin reaction.

12. Ecological Information

12.1. Aquatic Toxicity

Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Fish toxicity:

No data available.

Daphnia toxicity:

Turpentine oil: EC50: 14.1 mg/l

Bacteria toxicity:

Turpentine oil: EC50: 736 mg/l (3h, aquatic microorganisms; OECD 209)

Algae toxicity:

No information available.

12.2. Persistency and Degradability

Readily biodegradable (OECD 301).

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12.3. Bioaccumulation

An appreciate bioaccumulation potential is to be expected (log P (o/w) > 3).

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12.6. Endocrine Disrupting Properties

No data available.

12.7. Other Adverse Effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

*May cause long-term adverse effects in the aquatic environment.
Prevent product from entering surface water and drains.
Toxic to water organisms.*

AOX Value:

Product does not contain any organically bound halogen.

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Must be treated as toxic waste according to local laws and regulations.

Must not be disposed together with household garbage.

European Waste Code (EWC):

140603 - Other solvents and solvent mixtures*

Uncleaned packaging:

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

1299

14.2. UN Proper Shipping Name

ADR/RID:

TERPENTIN

IMDG/IATA:

TURPENTINE

14.3. Transport Hazard Classes

ADR Class:

3

Hazard no.:

3

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	<i>Classification code:</i>	<i>F1</i>
	<i>Tunnel restriction code:</i>	<i>D/E</i>
	<i>IMDG Class (sea):</i>	<i>3</i>
	<i>Hazard no.:</i>	<i>3</i>
	<i>EmS No.:</i>	<i>F-E, S-E</i>
	<i>IATA Class:</i>	<i>3</i>
	<i>Hazard no.:</i>	<i>3</i>
14. 4.	Packaging Group	
	<i>ADR/RID:</i>	<i>III</i>
	<i>IMDG:</i>	<i>III</i>
	<i>IATA:</i>	<i>III</i>
14. 5.	Environmental Hazards	
		<i>Labelling according 5.2.1.8 ADR/RID: fish and tree</i>
		<i>Labelling according 5.2.1.6.3 IMDG: fish and tree</i>
		<i>Classification as environmentally hazardous according 2.9.3</i>
		<i>IMDG: yes</i>
		<i>Labelled with "P" according 2.10 IMDG: yes</i>
14. 6.	Special Precautions for User	
		<i>not applicable</i>
14. 7.	Maritime Transport in Bulk according to IMO Instruments	
		<i>IMDG: not applicable</i>
14. 8.	Further Information	

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (German Regulation)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU): P5c and E2

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

Category E2: Environmentally hazardous: Amount 2: 200 t; Amount 3: 500 t

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.

Restriction and prohibition of application:

Technical instructions on air quality:

5.2.5.: Organic substances, class 1

5.2.5.: Organic substances: $m \geq 0.50$ kg/h: conc. 50 mg/m³

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15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15.3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.