



**Material Safety Data Sheet according to Regulation (EC) No. 1907/2006  
(revised by Regulation (EC) No. 453/2010)**

**Patina Oil**

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**1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**1.1 Identification of the substance/preparation**

Trade name Patina Oil /  
Patina Oil Set  
Article No. 79416, 7544 / 79440  
Package size 50 ml, 125 ml / 50 ml  
Substance name -  
INDEX No. -  
EG No. -  
CAS No. -  
REACH Registration No.-

**1.2 Use of the substance/preparation**

Patina oil for antique effects. For artists and hobby user.

**1.3 Manufacturer/Supplier**

C. KREUL GmbH & Co. KG  
Carl-Kreul-Strasse 2  
D-91352 Hallerndorf  
Phone no. +49 (0) 9545 925-0  
Fax no. +49 (0) 9545 925-511  
Mail [info@c-kreul.de](mailto:info@c-kreul.de)

**Information provided by**

Mrs. Treiber, [b.treiber@c-kreul.de](mailto:b.treiber@c-kreul.de)

**1.4 Emergency information**

Phone no. +49 (0) 9545 925-0  
Fax no. +49 (0) 9545 925-511

(Monday - Thursday 8.00 - 17.00; Friday 8.00 - 15.00)

**2. HAZARD IDENTIFICATION**

#

**2.1 Classification of the substance/preparation**

**Classification according to Regulation (EC) 1272/2008**

Flam. Liq. 3 H226; Asp. Tox. 1 H304; STOT SE 3 H336; STOT RE 1 H372; Aquatic Chronic 2 H411

**2.2 Labelling according to Regulation (EC) 1272/2008**

**Hazard pictogram and signal word of the product**



Danger



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**Hazard-determining components of labelling**

Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%), EG 919-446-0

**Hazard statements**

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.

**European hazard statements**

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH208 Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P310+IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 Do NOT induce vomiting.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to hazardous or special waste collection point.

**2.3 Other Hazards**

Flammable liquid and vapour. Vapours may form explosive mixtures with air. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical / electrical equipment). Take precautionary measures against static discharges.

Results of PBT and vPvB assessment: Not applicable.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical characterization**

Preparation based on organic solvent and cobalt sikkativ.

**Substance related information**

The product is a preparation.

**Main component**

-

**INDEX No.** -

**EG No.** -

**CAS No.** -

**REACH Registration No.:** -

**Classification according to Regulation (EC) 1272/2008:** -



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**Hazard impurities**

-

**INDEX No.** -

**EG No.** -

**CAS No.** -

**REACH Registration No.:** -

**Classification according to Regulation (EC) 1272/2008:** -

**3.1 Preparation/mixture related information**

**25 - 50 % Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%)<sup>1</sup>**

**INDEX No.** 649-330-00-2

**EG No.** 265-185-4 (919-446-0<sup>2</sup>)

**CAS No.** 64742-82-1

**REACH Registration No.:** 01-2119458049-33-XXXX

**Classification according to Regulation (EC) 1272/2008:** Flam. Liq. 3 H226; Asp. Tox. 1 H304; STOT SE 3 H336; STOT RE 1 H372; Aquatic Chron. 2 H411; EUH066

**< 2,5 % Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, <2% Aromates<sup>1</sup>**

**INDEX No.** -

**EG No.** 918-481-9<sup>2</sup>

**CAS No.** -

**REACH Registration No.:** -

**Classification according to Regulation (EC) 1272/2008:** Asp. Tox. 1 H304; EUH066

**< 0,25 % Cobalt bis(2-ethylhexanoate)**

**INDEX No.** -

**EG No.** 205-250-6

**CAS No.** 136-52-7

**REACH Registration No.:** -

**Classification according to Regulation (EC) 1272/2008:** Acute Tox. 4\* H302 ; Skin Irrit. 2 H315; Skin Sens. 1 H317; Aquatic Chron. 2 H411

\*minimum classification

<sup>1</sup> Note P according to VO 1272/2008 applies to this product or to one or several of its components. Benzene concentration < 0,1 Gew-%. Classification and labeling as carcinogene (R45) is not necessary.

<sup>2</sup> The above mentioned EC No. is a specific under-group of the CAS No. which is a reference for international inventories.

Additional information: Every entry in the EC No. column which begins with number "9" is – up to the publication of the official registration number – a temporary number declared by the ECHA for the substance.

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



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**4. FIRST AID MEASURES**

**4.1 General information**

Remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Immediately remove person concerned out of danger area. Symptoms see part 11.

**After inhalation**

Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. If breathing is irregular or stopped, administer artificial respiration. Unconsciousness: lateral poison - contact a doctor immediately.

**After skin contact**

Remove contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners. In case of skin reactions, consult a physician.

**After eye contact**

Remove contact lens. Irrigate copiously with clean, fresh water for at least 10 - 15 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

If swallowed immediately drink: water, to which activated charcoal may be added. Do NOT induce vomiting. During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration. Call a physician to the site of the accident in every case.

**4.2 The most important acute and delayed appearing symptoms and effects**

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. See part 11.

**4.3 References to medical emergency relief or special treatment**

With unconsciousness: inform an emergency doctor. Further instructions see section 4.1.

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**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media: Extinguishing powder, foam, water spray and carbon dioxide.  
Extinguishing media which must not be used for safety reasons: Full water jet

**5.2 Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

Use water spray jet to protect personnel and to cool endangered containers. Cool endangered containers with water in case of fire. It is possible to pressure formation and to burst of containers. Fire will produce dense black smoke. When product exposed to high temperatures it may produce hazardous decomposition products such as carbon monoxide and carbon dioxide, smoke and other hazards components.



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**5.3 Special protective equipment**

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Beware of reignition. Do not allow the quenching water into the sewage system. Dispose fire debris and contaminated fire fighting water in accordance with official regulations.

**5.4 Additional information**

Compare section 3, 7, 8 and 10.

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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions**

Wear protective gloves/protective clothing/eye protection/face protection. Remove ignition sources. Provide for sufficient ventilation. Do NOT inhale the vapour. Remove persons to safety.

**6.2 Environmental precautions**

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not empty into drains or watercourses. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Further instructions see section 6.3.

**6.3 Methods for cleaning up/collecting**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. Further instructions see part 10.

**6.4 Additional information**

Further instructions see section 7, 8 and 10.

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**7. HANDLING AND STORAGE**

**7.1 Information for safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide adequate ventilation. Never use pressure to empty: container is not a pressure vessel. Do not leave vessels/containers open. Always keep in containers of same material as the original one. Additionally, the product should only be used in areas from which all-naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electro statically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Use only antistatic equipped (spark-free) tools. Comply with the health and safety at work laws (TRGS 500). Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in application area. See protective measures under point 8.



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**Precautions against fire and explosion**

Flammable liquid and vapour. Keep away from sources of ignition - No smoking. Danger of inflammation in cause of weldings-works at empty containers. Vapours may form explosive mixtures with air. Take precautionary measures against static discharges. Usual measures for fire prevention.

**7.2 Conditions for safe storage, including incompatibilities**

**Information about storage conditions**

Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat and direct sunlight. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep container tightly closed.

**Hints on joint storage**

Only substances of the same storage class should be stored together. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. The substance should not be stored with substances with which hazardous chemical reactions are possible.

**Requirement for storage rooms and vessels**

Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat and direct sunlight. No smoking. Keep container tightly closed. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act. Observe label precautions.

**Additional information**

Storage class (VCI): 3A Flammable liquid substances

**7.3 Specific uses**

See 1.2.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Components with critical values that require monitoring at the workplace (exposure limits)**

**Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%); EG no. 919-446-0**

Specification: AGW

Value: short term exposure value: 600 ml/m<sup>3</sup> (ppm)  
long term exposure value: 300 ml/m<sup>3</sup> (ppm)

Peak limitation: -

Toxic to reproduction: -

Remark: Calculated according to RCP method (TRGS 900).

**Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, <2% Aromates; EG no. 918-481-9**

Specification: AGW

Value: 100 ml/m<sup>3</sup> (ppm)



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Peak limitation: -  
Toxic to reproduction: -  
Remark: Hydrocarbon mixture

**DNEL/DMEL-Values**

**Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%); EG no. 919-446-0**

Oral	DNEL long-term exposure – systemic effects	26 mg/kg	(general population)
Dermal	DNEL long-term exposure – systemic effects	26 mg/kg bw/d	(general population)
		44 mg/kg bw/d	(worker)
Inhalativ	DNEL long-term exposure – systemic effects	71 mg/m <sup>3</sup>	(general population)
		330 mg/m <sup>3</sup>	(worker)

**PNEC-Values**

No data available.

**8.2 Occupational exposure controls**

Technical measures and the application of suitable working methods have precedence before the application of personal protective equipment. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Suitable judgement methods of the examination of the effectiveness of the grievied preventive measures enclose measuring-technical and non-technical inquiry methods like they in the technical rules for danger materials (TRGS) 402.

**Personal protective equipment**

Do not eat or drink during work – No smoking. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately.

**Respiratory protection**

Take breathing protection measures (see also instruct to avoid accidents). Breathing protection equipment required in inadequately ventilated places and during spraying.

Respiratory filter (gas): A1 (brown) until 1000 ml/m<sup>3</sup> (ppm)  
A2 (brown) until 5000 ml/m<sup>3</sup> (ppm)  
A3 (brown) until 10000 ml/m<sup>3</sup> (ppm)

Details are to be inferred “from the rules for the use of respiratory protective devices” (BGR 190 (German regulation)).

**Skin protection**

Avoid contact with skin. Use protective gloves (EN 374). Solvent-resistant protective gloves must be worn. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location. Textile or leather gloves are completely unsuitable. Pay attention to skin care.



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The following materials are suitable for protective gloves

Inherent protection

Nitrile rubber/Nitrile latex – NBR (0,4 mm): Permeation time  $\geq$  8 hours

Splash guard

Nitrile rubber/Nitrile latex – NBR (0,12 mm): Permeation time 2 - 4 hours

The times listed are suggested by measurements taken at 22 °C and constant contact. Temperatures raised by warmed substances, body heat, etc. and a weakening of the effective layer thickness caused by expansion can lead to a significantly shorter breakthrough time. In case of doubt contact the gloves' manufacturer. A 1.5-times increase / decrease in the layer thickness doubles / halves the breakthrough time. This data only applies to the pure substance. Transferred to mixtures of substances, these figures should only be taken as an aid to orientation.

**Eye protection**

Avoid contact with eyes. Use safety glasses according to EN 166:2001.

**Body protection**

Personnel should wear antistatic clothing's made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact. Light protective clothing.

**Limitation and supervision of the environmental exposition**

See section 6 and 7.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 General information**

**Form:** fluid  
**Colour:** yellow - red  
**Odour:** like petroleum

**9.2 Relevant safety data**

**Flashpoint:** 45 °C DIN EN 22719  
**Viscosity:** < 20,5 cSt  
**Density: (20 °C)** approx. 0,9 g/cm<sup>3</sup> DIN 53217  
**Explosive limits:**  
Lower / Upper: 0,6 Vol.-% / 6,5 Vol.-%  
**Ignition temperature:** > 200 °C  
**Vapour pressure:** not determined (20 °C)  
**pH-value:** not applicable  
**Solubility in water:** insoluble

**9.3 Additional information**

No other physical-chemical data available.





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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. See section 7.

### 10.2 Chemical stability

If handled properly then product has chemical stability.

### 10.3 Possible dangerous reactions

None, if handled according to order. Further instructions see section 10.1 and 10.2.

### 10.4 Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

### 10.5 Incompatible materials

See section 10.1.

### 10.6 Hazardous decomposition products

When product exposed to high temperatures, it may produce hazardous decomposition products such as carbon monoxide and carbon dioxide, smoke and other hazardous components.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

**Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%); EG no. 919-446-0**

LD<sub>50, oral, rat</sub> > 15000 mg/kg (OECD 401)

LD<sub>50, dermal, rat</sub> = 3400 mg/kg (OECD 402)

LC<sub>50, inh., rat, 4h</sub> = 13100 mg/m<sup>3</sup> (OECD 403)

Remark: Substance/product listed in Regulation (EC) 1272/2008.

#### Primary irritant effect after inhalation

Exposure to component solvents vapour concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

#### on the skin

Repeated exposure may cause skin dryness or cracking. Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin and absorption through the skin.

#### on the eyes

The liquid splashed in the eyes may cause irritation and reversible damage.



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<b>after ingestion</b>	Harmful: may cause lung damage if swallowed. Do not induce vomiting. For symptoms see primary irritant effect after inhalation.
<b>Sensitization</b>	There are no data available on the preparation itself.
<b>Chronic</b>	There are no data available on the preparation itself.

**11.2 Additional toxicological information**

Causes damage to organs through prolonged or repeated exposure.

The product is classified according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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**12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%); EG no. 919-446-0**

LC<sub>50, fish, 96h</sub> = 10 - 30 mg/l (OECD 203)

EC<sub>50, crustaceans, 48h</sub> = 10 - 22 mg/l (OECD 202)

Remark: -

**12.2 Persistence/degradability**

There are no data available.

**12.3 Bioaccumulative potential**

There are no data available.

**12.4 Mobility**

There are no data available.

**12.5 Results of PBT and vPvP assessment**

There are no data available.

**12.6 Other adverse effects**

There are no data available.

**12.7 Further ecological information**

Do not discharge into the drains/surface waters/groundwater.

Water hazard class: WGK 2 hazardous for water

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**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Send to a hazardous waste incinerator facility under observation of official regulations. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.



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**Recommendation**

Disposal must be made according to official regulations.

**13.2 European waste code number in accordance with AAV**

EWC No.: 08 01 11 waste paint and varnish containing organic solvents or other dangerous  
EWC No.: 20 01 13 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR  
COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)  
INCLUDING SEPARATELY COLLECTED FRACTIONS, solvents

**13.3 Packaging**

**Contaminated packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing, may be taken for reuse. Packaging that cannot be cleaned should be disposed in the same manner as the medium.

EWC No. 15 01 10 packaging containing residues of or contaminated by dangerous substances

**Non-contaminated packages**

EWC No.: 15 01 01 paper and cardboard packaging  
EWC No.: 15 01 02 plastic packaging  
EWC No.: 15 01 07 glass packaging

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**14. TRANSPORT INFORMATION**

**14.1 Land transport ADR/RID and GVS/GGVE**



Class: 3 Flammable liquids  
Kemler-Code: 30  
UN No.: 1263  
Packaging group: III  
Label: 3  
Special marking: Symbol (fish and tree)  
Proper shipping name: 1263 – Paint related material (Contains Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%))  
Classification-Code: F1  
Limit: 5 L  
Tunnel restriction code: 3 (D/E)

**14.2 Maritime transport IMDG/GGVSea**



Class: 3  
UN No.: 1263



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Label: 3  
Packaging group: III  
EmS-No.: F-E, S-E  
Marine pollutant: yes, Symbol (fish and tree)  
Proper shipping name: 1263 – Paint related material (Contains Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%))

**14.3 Air transport ICAO-TI and IATA-DGR**



ICAO/IATA Class: 3  
UN no.: 1263  
Label: 3  
Packaging group: III  
Proper shipping name: 1263 – Paint related material (Contains Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%))

**14.3 Remarks**

Product contains environmentally hazardous substances: Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromates (2-25%)

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**15. REGULATORY INFORMATION**

**15.1 European Regulation**

**Chemical Safety Assessment:** For this substance a chemical safety assessment is not required.

**15.2 National Regulations**

Statutory order on hazardous incidents (StörfallV): Annex I, Nr. 6, 9b  
Regulation on inflammable liquids: VbF-Class: All  
Emission control act ("TA-Luft"): 3.1.7 Class III  
Water hazard class: WGK 2 hazardous for water (according VwVwS)

**15.3 Additional information**

The product is classified according to the EEC directives and the Ordinance on Hazardous Materials (GefStoffV).

If bottle ≤ 125 ml then the following H- and P-phrases are not necessary: H226, H411, P210, P403+P233.

Please check local regulations.

Volatile organic compounds (Swiss): 50 %; 23 g/50ml; 56 g/125ml; 0,45 kg/l

The advertised use (section 1) is not subject of the Directive 2004/42/EC.



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## 16. OTHER INFORMATION

### 16.1 Changes compared with the last version

The last version was all changed and revised completely. Alterations to the previous edition are marked in the right-hand margin.

### 16.2 Literature reference and data source

Regulation (EC) 1999/45, last changed by Regulation (EC) 1907/2006  
Regulation (EC) 67/548, last changed by Regulation (EC) 2009/2  
REACH Regulation (EC) 1907/2006, last changed by Regulation (EC) 453/2010  
Regulation (EC) 1272/2008, last changed by Regulation (EC) 790/2009

#### Internet

<http://www.baua.de>  
<http://www.arbeitssicherheit.de>  
<http://www.gischem.de>

### 16.3 Full text of H- and R-phrases appearing in section 2 and 3: According to Regulation (EC) 1272/2008

Flam. Liq. 3 H226	Flammable liquid and vapour.
Acute Tox. 4* H302	Harmful if swallowed.
Asp. Tox. 1 H304	May be fatal if swallowed and enters airways.
Skin Irrit. 2 H315	Causes skin irritation.
Skin Sens. 1 H317	May cause an allergic skin reaction.
STOT SE 3 H336	May cause drowsiness or dizziness.
STOT RE 1 H372	Causes damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2 H411	Toxic to aquatic life with long lasting effects.

\* minimum classification

#### EUH – statements

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Methods according to article 9 of the order (EC) No. 1272/2008 for the assessment of the information for the purpose of the classification were used:

Classification according to Regulation (EC) 1272/2008.

### 16.4 Abbreviations and acronyms

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**BImSchV:** Order for the realisation of the Federal Immission Protection Law

**CAS:** Chemical Abstracts Service

**DIN:** Norm of the German institute of standardization

**EC:** Effective concentration

**EC50:** Effective concentration, 50 percent

**EG:** European Community



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<b>EINECS:</b>	European Inventory of Existing Commercial Chemical Substances
<b>EN:</b>	European Standard
<b>GefStoffV:</b>	Ordinance on Hazardous Substances, Germany
<b>GHS:</b>	<b>G</b> lobally <b>H</b> armonized <b>S</b> ystem of Classification and Labelling of Chemicals
<b>IATA:</b>	<b>I</b> nternational <b>A</b> ir <b>T</b> ransport <b>A</b> ssociation
<b>IMDG:</b>	<b>I</b> nternational <b>M</b> aritime <b>C</b> ode for <b>D</b> angerous <b>G</b> oods
<b>LC50:</b>	Lethal concentration, 50 percent
<b>LD50:</b>	Lethal dose, 50 percent
<b>Log K<sub>ow</sub>:</b>	n-octanol-water partition coefficient
<b>OECD:</b>	<b>O</b> rganisation for <b>E</b> conomic <b>C</b> o-operation and <b>D</b> evelopment
<b>PBT:</b>	Persistent, bioaccumulateable, toxically
<b>RID:</b>	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
<b>TRGS:</b>	Technical rules for danger materials
<b>UN:</b>	<b>U</b> nited <b>N</b> ations (Vereinte Nationen)
<b>VOC:</b>	<b>V</b> olatile <b>O</b> rganic <b>C</b> ompounds
<b>vPvB:</b>	very much persistent and very bioaccumulateable
<b>VwVwS:</b>	Administrative regulation of hazardous to waters materials
<b>WGK:</b>	Water hazardous class

**16.5 Department issuing safety data sheet**

Laboratory, Mrs. Dipl.-Ing. Treiber, [b.treiber@c-kreul.de](mailto:b.treiber@c-kreul.de).

**16.6 Additional information**

The data is based on our present knowledge. The data correspond to the national and EEC legislation. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

It is not permitted to use the product for any other application mentioned in chapter 1 except with a written permission. The user is responsible for the compliance with all valid legal regulation.

This safety data sheet is only valid for Patina Oil. It's not valid for other products placed in the according sales displays or sets.