

1260000  
Version 4.1

Hard oil clear  
Revision date 08-Jul-2021

Print date 08-Jul-2021

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

### 1.1 Product identifier

#### Trade name/designation

1260000 Hard oil

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

#### Relevant identified uses

\* Plating agent

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

AURO Pflanzenchemie AG  
Alte Frankfurter Straße 211  
38122 Braunschweig  
Deutschland  
Telephone: +49 531 28141-0  
Telefax: +49 531 28141-72  
E-mail: [info@auro.de](mailto:info@auro.de)  
Website: [www.auro.de](http://www.auro.de)

#### Department responsible for information

E-mail (competent person) [msds@auro.de](mailto:msds@auro.de)

### 1.4 Emergency telephone number

Emergency telephone number +44 1544388535  
Only available during office hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3; flammable liquids; H226 Flammable liquid and vapour.

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

Aquatic Acute 1; Hazardous to the aquatic environment; H400 Very toxic to aquatic life.

Aquatic Chronic 1; Hazardous to the aquatic environment; H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

##### Hazard pictograms



GHS02 GHS07 GHS09

##### Signal word

Warning

##### Hazard statements

H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

##### 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P391 Collect spillage.  
P403 + P235 Store in a well-ventilated place. Keep cool.

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P501 Dispose of contents/container to industrial incineration plant.

### Hazard components for labelling

turpentine, oil

Orange, sweet, ext.

Reaction mass of 1-Methyl-4-(1-methylethenyl)cyclohexene and 1-Methyl-4-(1-methylethylidene)-cyclohexene and 1-methyl-4-(propan-2-yl)cyclohexa-1,3-diene

### Supplemental hazard information

not applicable

## 2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition / information on ingredients.

### 3.2 Mixtures

#### Description

#### Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
* - 939-409-2 -	<b>Reaction mass of 1-Methyl-4-(1-methylethenyl)cyclohexene and 1-Methyl-4-(1-methylethylidene)-cyclohexene and 1-methyl-4-(propan-2-yl)cyclohexa-1,3-diene</b> 01-2119969963-17-xxxx Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Skin Sens. 1B H317 / Aquatic Acute 1 H400 (M = 1,00 ) / Aquatic Chronic 1 H410 (M = 1,00 )	35,0 < 50,0
8028-48-6 232-433-8 -	<b>Orange, sweet, ext.</b> 01-2119493353-35-0003 Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	3,00 < 5,00
* 8006-64-2 932-349-8 650-002-00-6	<b>turpentine, oil</b> (Balsam-Terpentinöl) 01-2119553060-53-0007 Flam. Liq. 3 H226 / Acute Tox. 4 H302 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / Aquatic Chronic 2 H411	3,00 < 5,00

#### Remark

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

### **Symptoms**

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Powder, spray mist, (water)

#### **Unsuitable extinguishing media**

Strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### **5.3 Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Ventilate affected area. Do not breathe vapours.

### **6.2 Environmental precautions**

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

### **6.3 Methods and material for containment and cleaning up**

#### **For containment**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

#### **For cleaning up**

Clean using cleansing agents. Do not use solvents.

### **6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advices on safe handling**

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see section 8 Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### **Advices on general occupational hygiene**

When using do not eat, drink or smoke.

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

#### **Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### **Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### **Further information on storage conditions**

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Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3 Specific end use(s)

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
8006-64-2	turpentine, oil	WEL	566 / 850 ( - ) mg/m <sup>3</sup>

#### **Additional information**

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

#### Biological limit values

No data available

### 8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

#### Personal protection equipment

##### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

##### **Hand protection**

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material  $\geq 0,4$  mm

Breakthrough time  $\geq 480$  min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Recommended glove articles: EN ISO 374

##### **Skin protection**

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### **Eye/face protection**

Eye glasses with side protection

##### **Body protection**

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state liquid

Colour refer to label

#### **Safety characteristics**

Odour characteristic

Odour threshold not determined

pH not determined

Melting point/freezing point not determined

Initial boiling point and boiling range not determined

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Flash point	53 °C
Evaporation rate at 20°C	not determined
Burning time	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20°C	2,434 mbar
Density at 20°C	0,897 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	not determined
Decomposition temperature	not determined
Viscosity	< 80 mm <sup>2</sup> /s
Explosive properties	not relevant
Oxidising properties	not relevant

## 9.2 Other information

not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### **Orange, sweet, ext.**

LD50: oral (Rat): > 5.000 mg/kg

LD50: oral (Rat): > 5.000 mg/kg

#### **turpentine, oil**

LD50: oral (Rat): = 3.956 mg/kg

LD50: oral (Rat): = 3.956 mg/kg

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

## **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

## **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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**

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

## **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

#### ***Acute (short-term) fish toxicity***

##### **\* Orange, sweet, ext.**

LC50: (Pimephales promelas (fathead minnow)): = 0,7 mg/L (96 h)

Method: OECD 203

#### ***Reaction mass of 1-Methyl-4-(1-methylethenyl)cyclohexene and 1-Methyl-4-(1-methylethylidene)-cyclohexene and 1-methyl-4-(propan-2-yl)cyclohexa-1,3-diene***

##### **\* LC50: (Danio rerio (zebrafish)): 1,3 mg/L (96 h)**

#### ***Acute (short-term) toxicity to algae and cyanobacteria***

##### **\* Orange, sweet, ext.**

ErC50: (Desmodesmus subspicatus): = 150 mg/L (72 h)

Method: OECD 201

#### ***Reaction mass of 1-Methyl-4-(1-methylethenyl)cyclohexene and 1-Methyl-4-(1-methylethylidene)-cyclohexene and 1-methyl-4-(propan-2-yl)cyclohexa-1,3-diene***

##### **\* ErC50: (Desmodesmus subspicatus): 0,42 mg/L (72 h)**

#### ***Acute (short-term) toxicity to crustacea***

##### **\* Orange, sweet, ext.**

EC50 (Daphnia magna (Big water flea)): = 0,67 mg/L (48 h)

Method: OECD 202

#### ***Reaction mass of 1-Methyl-4-(1-methylethenyl)cyclohexene and 1-Methyl-4-(1-methylethylidene)-cyclohexene and 1-methyl-4-(propan-2-yl)cyclohexa-1,3-diene***

##### **\* EC50 (Daphnia magna (Big water flea)): 0,48 mg/L (48 h)**

### **12.2 Persistence and degradability**

#### ***Orange, sweet, ext.***

Biodegradation = 72 % (28 d )

### **12.3 Bioaccumulative potential**

##### **\* Partition coefficient: n-octanol/water $\geq$ 4**

Partition coefficient: n-octanol/water = 4,88

### **12.4 Mobility in soil**

No information available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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## 12.6 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### Waste codes/waste designations according to EWC/AVV

080111\* - Waste paint and varnish containing organic solvents or other dangerous substances

#### Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1 UN number

UN 1263

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

Paint

#### Sea transport (IMDG)

\* Paint

#### Air transport (ICAO-TI / IATA-DGR)

Paint

### 14.3 Transport hazard class(es)

Land transport (ADR/RID)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

### 14.4 Packing group

Land transport (ADR/RID)	III
Sea transport (IMDG)	III
Air transport (ICAO-TI / IATA-DGR)	III

### 14.5 Environmental hazards

Land transport (ADR/RID)	ENVIRONMENTALLY HAZARDOUS
* Sea transport (IMDG)	Marine pollutant

### 14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

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

No transport as bulk according to IBC Code.

### 14.8 Additional information

#### Land transport (ADR/RID)

tunnel restriction code: D/E

#### Sea transport (IMDG)

EmS-No.: F-E, S-E

#### Air transport (ICAO-TI / IATA-DGR)

not applicable

## SECTION 15: Regulatory information

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

#### EU legislation

#### Restrictions of occupation



Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value: 449,986 g/l

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC limit value 2004/42/IIA(f): 700 g/l (2010)

- \* Maximum VOC content (g/L) of the product in a ready to use condition: 449.9859  
This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

**Hazard categories / Named dangerous substances**

E1 Hazardous to the aquatic environment in Category Acute 1 or Chronic 1

Quantity 1: 100t; Quantity 2: 200t

P5c FLAMMABLE LIQUIDS

Quantity 1: 5.000t; Quantity 2: 50.000t

**National regulations**

**15.2 Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

REACH No.	Substance name	CAS No.	EC No.
01-2119493353-35-0003	Orange, sweet, ext.	8028-48-6	232-433-8
01-2119969963-17-xxxx	Reaction mass of 1-Methyl-4-(1-methylethenyl)cyclohexene and 1-Methyl-4-(1-methylethylidene)-cyclohexene and 1-methyl-4-(propan-2-yl)cyclohexa-1,3-diene	8006-64-2	939-409-2
01-2119553060-53-0007	turpentine, oil	932-349-8	

**SECTION 16: Other information**

**Relevant R-, H- and EUH-phrases (Number and full text) Relevant R- and H-phrases (Number and full text):**

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.
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.

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

Flam. Liq. 3	On basis of test data.
Skin Sens. 1	Calculation method.
Aquatic Acute 1	Calculation method.
Aquatic Chronic 1	Calculation method.

**Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
OEL: Occupational Exposure Limit Value  
BLV: Biological limit values  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
DIN: German Institute for Standardization / German industrial standard  
DNEL: Derived No-Effect Level  
EAKV: European Waste Catalogue Directive  
EC: Effective Concentration



**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2015/830**

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EC: European Community  
EN: European Standard  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG Code: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
LC: Lethal Concentration  
LD: Lethal Dose  
MWC: Maximum workplace concentration  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Cooperation and Development  
PBT: persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version