

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 19.01.2022

Version number 2.4 (replaces version 2.3)

Revision: 19.01.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** Magura Royal Blood**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** Hydraulic oil**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Gustav Magenwirth GmbH &amp; Co. KG

Stuttgarter Str. 48

D - 72574 Bad Urach

Tel.: +49(0) 71 25 - 1 53 - 0

Fax: +49(0) 71 25 - 1 53 - 16

magura.sdb@magura.de

**Further information obtainable from:** Development / Occupational safety**1.4 Emergency telephone number:** England, Scotland, Wales: 111; Northern Ireland: contact your local GP**SECTION 2: Hazards identification****2.1 Classification according to Regulation (EC) No 1272/2008**

health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

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

**Hazard pictograms**

GHS08

**Signal word** Danger**Hazard-determining components of labelling:**

1-Decene, Dimer, hydrogenated

**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant

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**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** This substance is neither persistent, bioaccumulative nor toxic (PBT).**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Preparation****Description:** Mixture of subsequent listed substances and harmless additives.**Dangerous components:**

CAS: 64742-55-8 EINECS: 265-158-7	Distillates (petroleum), hydrotreated light paraffinic	20-60%
CAS: 68649-11-6	1-Decene, Dimer, hydrogenated ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	10-25%

**Additional information:**

For the wording of the listed hazard phrases refer to section 16.

The mineral oils in this product contain &lt; 3% DMSO extract (IP346).

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Consult a doctor and show this safety data sheet if symptoms occur or in cases of doubt.

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Personal protection for the First Aider.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of inhaling spray mist consult a doctor and show packaging or safety data sheet.

**After skin contact:**

Wash contaminated skin with water and soap and rinse thoroughly. Remove contaminated clothing. Get medical attention if symptoms occur.

**After eye contact:**

Rinse opened eye for several minutes under running water. Remove contact lenses, continue rinsing. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse mouth with water. Do NOT induce vomiting! Danger of aspiration! Call for a doctor immediately.

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

Symptoms of poisoning after swallowing or aspiration can occur after several hours. Medical monitoring for at least 48 h is advised.

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

If swallowed or in case of vomiting, danger of entering the lungs.

Treat symptomatically. Give oxygen, if necessary. Regulate circulatory functions, possibly shock treatment.

Subsequent monitoring for pneumonia and lung oedema.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet.

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

Formation of toxic/irritant gases is possible during heating or in case of fire.  
Products of decomposition see chapter 10.

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

Wear protective equipment. Keep away unprotected persons.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Keep away from open flames, hot surfaces and sources of ignition.

Avoid contact with skin and eyes.

Do not inhale vapours and aerosols.

Close leakage without taking personal risks.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

In case of seepage into the ground inform responsible authorities.

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

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

Dispose contaminated material as waste according to item 13.

**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 disposal information.

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

Prevent longer or repeated contact with skin.

Prevent contact with eyes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Particular danger of slipping on leaked/spilled product.

Keep away from food, drink and animal feeding stuffs.

Wash hands before breaks and at end of work

Do not eat, drink or smoke while working.

**Information about fire - and explosion protection:** Keep away ignition sources - Do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.

Prevent any seepage into the ground.

**Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from food, beverage and feedingstuff.

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**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 10 - flammable liquid, flashpoint >60°C**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** TWA: 5 mg/m<sup>3</sup> (oil mist)**Additional information:** The lists that were valid during the creation were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see item 7.**General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

**Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter A/P2

**Hand protection**

Protective gloves (EN 374)

**Material of gloves**

Use solvent/hydrocarbon resistant gloves. Suitable are gloves from: nitrile rubber (thickness &gt;0,38 mm, breakthrough time &gt; 480 min), fluorocarbon rubber (thickness &gt;0,38 mm, breakthrough time &gt; 480 min).

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**

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

**For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Thickness &gt; 0,38 mm

Permeation time &gt; 480 min

**Eyelface protection**

Safety glasses with side protection (EN 166).

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**Body protection:** *Protective work clothing (EN 14605)*

### **SECTION 9: Physical and chemical properties**

#### **9.1 Information on basic physical and chemical properties**

##### **General Information**

<b>Physical state</b>	<i>Fluid</i>
<b>Colour:</b>	<i>Blue</i>
<b>Odour:</b>	<i>Characteristic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>
<b>Melting point/freezing point:</b>	<i>Not determined.</i>
<b>Boiling point or initial boiling point and boiling range</b>	<i>&gt;250 °C</i>
<b>Flammability</b>	<i>Not applicable.</i>
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	<i>0.6 Vol %</i>
<b>Upper:</b>	<i>7.0 Vol %</i>
<b>Flash point:</b>	<i>&gt;130 °C</i>
<b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>Viscosity:</b>	
<b>Kinematic viscosity at 40 °C</b>	<i>11 mm<sup>2</sup>/s</i>
<b>Solubility</b>	
<b>water:</b>	<i>Not miscible.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	<i>0.84 g/cm<sup>3</sup></i>
<b>Relative density</b>	<i>Not determined.</i>

#### **9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	<i>Fluid</i>
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	<i>Not determined.</i>
<b>Explosive properties:</b>	<i>Product does not present an explosion hazard.</i>
<b>Solvent content:</b>	
<b>VOC (EC)</b>	<i>0.0%</i>
<b>Change in condition</b>	
<b>Softening point/range</b>	
<b>Oxidising properties</b>	<i>Non oxidising.</i>
<b>Evaporation rate</b>	<i>Not determined.</i>

#### **Information with regard to physical hazard classes**

<b>Explosives</b>	<i>Void</i>
	<i>Void</i>
<b>Flammable gases</b>	<i>Void</i>
	<i>Void</i>
<b>Aerosols</b>	<i>Void</i>
	<i>Void</i>
<b>Oxidising gases</b>	<i>Void</i>
	<i>Void</i>
<b>Gases under pressure</b>	<i>Void</i>
	<i>Void</i>
<b>Flammable liquids</b>	<i>Void</i>
	<i>Void</i>

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<b>Flammable solids</b>	Void
	Void
<b>Self-reactive substances and mixtures</b>	Void
	Void
<b>Pyrophoric liquids</b>	Void
	Void
<b>Pyrophoric solids</b>	Void
	Void
<b>Self-heating substances and mixtures</b>	Void
	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
	Void
<b>Oxidising liquids</b>	Void
	Void
<b>Oxidising solids</b>	Void
	Void
<b>Organic peroxides</b>	Void
	Void
<b>Corrosive to metals</b>	Void
	Void
<b>Desensitised explosives</b>	Void
	Void

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** Stable under recommended storage conditions.

**10.2 Chemical stability** Stable under normal conditions.

**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** Keep away from strong oxidants as well as reducing agents.

**10.5 Incompatible materials:**

strong oxidants

strong reducing agents

**10.6 Hazardous decomposition products:**

In case of fire:

CO<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>x</sub>

Phosphorus oxides

Under certain conditions of fire, other toxic/irritant substances may form.

## **SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

**LD/LC50 values relevant for classification:**

**CAS: 68649-11-6 1-Decene, Dimer, hydrogenated**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50	900–5,200 mg/m <sup>3</sup> (rat) (4 h, Nebel)

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**Serious eye damage/irritation** Slightly irritant, but not relevant to classification.**Aspiration hazard** May be fatal if swallowed and enters airways.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

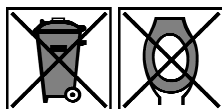
**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability** biodegradable**12.3 Bioaccumulative potential** Bioaccumulation is not to be expected.**12.4 Mobility in soil** After release, adsorbs onto soil.**12.5 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** At intended use no interferences with environment are known or expected.**Other information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**SECTION 14: Transport information****14.1 UN number or ID number**

ADR, ADN, IMDG, IATA

not regulated

**14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA

not regulated

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**14.3 Transport hazard class(es)**

**ADR, ADN, IMDG, IATA**  
Class

not regulated

**14.4 Packing group**  
ADR, IMDG, IATA

not regulated

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Maritime transport in bulk according to IMO**  
instruments

Not applicable.

**Transport/Additional information:****IMDG****Limited quantities (LQ)**

not any

**UN "Model Regulation":**

not regulated

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Labelling according to Regulation (EC) No 1272/2008**

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

**Hazard pictograms**

GHS08

**Signal word** Danger**Hazard-determining components of labelling:**

1-Decene, Dimer, hydrogenated

**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant

**Directive 2012/18/EU****Named dangerous substances - ANNEX I**

None of the ingredients is listed.

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Reasons for alterations** UFI

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**Relevant phrases***H304 May be fatal if swallowed and enters airways.**H332 Harmful if inhaled.***Training hints***Upon request trainings for to ensure safety of human health and of environment can be given. Contact see below.***Classification according to Regulation (EC) No 1272/2008***The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.***Department issuing SDS:** *Development / Occupational safety***Contact:** *Email: magura.sdb@magura.de***Abbreviations and acronyms:***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**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Asp. Tox. 1: Aspiration hazard – Category 1***Sources***Data of raw material suppliers.**GESTIS-Stoffdatenbank, Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung, <https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>.**ECHA-Database, European Chemical Agency, <https://echa.europa.eu>.*