

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

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

### 1.1 Product identifier

Trade name: **MAGIRUS CONTROL CS**

Application / Use: Hydraulic oil, synthetic

Article number: 503792276

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

Application of the substance / the preparation: Hydraulic oil

Uses advised against: No further relevant information available.

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

#### Manufacturer/Supplier:

Magirus GmbH  
Graf-Arco-Straße 30  
DE - 89079 Ulm

Tel: +49 (0) 731 408 4467  
Fax: +49 (0) 731 408 2410  
EMail: magirus@cnhind.com  
Homepage: www.magirusgroup.com

#### Further information obtainable from:

Magirus Service-Line  
magirus-ersatzteilwesen@cnhind.com

### 1.4 Emergency telephone number:

In case of emergency ONLY:

Emergency response (24 hours) CHEMTREC:

1-800-424-9300 / +1-703-741-5970  
+(44)-870-8200418 (United Kingdom)  
+(44)-203-8073798 (United Kingdom)  
+(31)-858880596 (Netherlands)  
+(61)-290372994 (Australia)  
0-800-983-611 (South Africa)  
+1 703-527-3887 (USA & Canada)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

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

Additional information: The classification as harmful by inhalation refers to respirable aerosol fractions.

### 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



GHS07 GHS08

Signal word Danger

#### Hazard-determining components of labelling:

Dec-1-ene, dimer, hydrogenated

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 1)

**Hazard statements**

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P261 Avoid breathing mist/vapours/spray.

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

P331 Do NOT induce vomiting.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

**2.3 Other hazards** High-pressure injections of hydraulic oils under the skin can cause severe injuries.**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Description: Mixture

Dangerous components:		
CAS: 68649-11-6 NLP: 500-228-5 Reg.nr.: 01-2119493069-28	Dec-1-ene, dimer, hydrogenated Asp. Tox. 1, H304; Acute Tox. 4, H332	50-100%
	Base oil, low-viscosity *** Asp. Tox. 1, H304	≤5%
CAS: 128-39-2 EINECS: 204-884-0 Reg.nr.: 01-2119490822-33	2,6-di-tert-butylphenol Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	≥0.025-<0.25%

**Additional information:**

\*\*\*) may contain (REACH-Registration numbers):

64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-000020163-82)

The wording of the hazard symbols and H-phrases is specified in section 16 if dangerous ingredients are mentioned.

Components with threshold limit values are mentioned at section 8.

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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

Position and transport stably in side position.

In case of injuries due to high-pressure injections: Take persons affected to hospital immediately, even if no symptoms arise initially or there are no signs of injury to the skin.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** Do not induce vomiting; call for medical help immediately.**Information for doctor:** Treat symptomatically.**4.2 Most important symptoms and effects, both acute and delayed:** If swallowed or in case of vomiting, danger of entering the lungs.

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 2)

**Hazards**

Danger of pulmonary oedema.

Danger of pneumonia.

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

Later observation for pneumonia and pulmonary oedema.

Immediate surgery will possibly be necessary after injuries due to high-pressure injection, in order to keep tissue damage and functional loss to a minimum.

The composition of the injected product is not important for the emergency treatment of these injuries.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, sand, extinguishing powder.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Do not use water with full jet.**5.2 Special hazards arising from the substance or mixture:**

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Sulphur oxide (SO<sub>x</sub>)**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

**Additional information:** 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**

Particular danger of slipping on leaked/spilled product.

Wear protective clothing.

**6.2 Environmental precautions:**

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

Prevent from spreading (e.g. by damming-in or oil barriers).

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

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

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

**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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:** Fire class EN 2: B**Handling:** When handling product in drums use safety footwear and suitable tools. At work please do not eat, drink or smoke.

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 3)

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

- Store only in the original receptacle.
- Provide floor trough without outlet.
- Prevent any seepage into the ground.
- Use only receptacles specifically permitted for this substance/product.

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

- Store away from foodstuffs.
- Store away from oxidising agents.
- Store away from water.

**Further information about storage conditions:**

- Keep container tightly sealed.
- Protect from humidity and water.
- Recommended storage temperature: 5 to 40 °C.

**Shelf life from date of dispatch:** Maximum 3 years**7.3 Specific end use(s):** For more information see technical information.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

<b>DNELs</b>		
<b>CAS: 68649-11-6 Dec-1-ene, dimer, hydrogenated</b>		
Inhalative	DNEL worker (short term exposure)	60 mg/m <sup>3</sup> (human)

**Additional information:**

- The lists valid during the making were used as basis.
- If formation of steam, mist or aerosols take place the concentration in the air has to be kept at the lowest possible level.

**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- 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.

**Respiratory protection:**

No respiratory protection is ordinarily required under normal conditions of use. Select a filter suitable for combined particulate/ gases and organic vapours (boiling point > 65 °C, AP2, EN 14387), if exposure limit is exceeded or when aerosol or mist is formed.

**Hand protection**

- Safety gloves of nitrile rubber or viton.
- Preventive skin protection by use of skin-protecting agents is recommended.

**Material of gloves**

- Fluorocarbon rubber (Viton)
- Nitrile rubber, NBR

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.

(Contd. on page 5)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 4)

**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.

Value for the permeation: Level = 6 (480 min)

**Eye/face protection** Goggles recommended during refilling.**Body protection:** Protective work clothing.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Physical state**

Colour:

Odour:

Odour threshold:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range

Flammability

Lower and upper explosion limit

Lower:

Upper:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH

Viscosity:

Kinematic viscosity at 40 °C

Solubility

water:

Partition coefficient n-octanol/water (log value)

Vapour pressure:

Density and/or relative density

Density at 15 °C:

Relative density

Vapour density

**9.2 Other information**

Appearance:

Form:

**Important information on protection of health and environment, and on safety.****Explosive properties:**

Change in condition

Drip point:

Pour point:

Evaporation rate

**Information with regard to physical hazard classes**

Explosives

Flammable gases

Aerosols

Fluid

Light yellow

Mild

Not determined.

Not determined.

Not determined.

Not applicable.

Not determined.

Not determined.

&gt;160 °C (DIN EN ISO 2592)

Not determined.

Not determined.

Not determined.

10 mm<sup>2</sup>/s (DIN 51 562)

Not miscible or difficult to mix.

Not determined.

Not determined.

0.809 g/cm<sup>3</sup> (DIN 51 757)

Not determined.

Not determined.

Fluid

The product shows no danger of explosion, but it may build explosive mixtures with air (by vaporisation, oil mist formation, heating above the flash point).

Not determined.

&lt; - 57 °C (DIN ISO 3016)

Not determined.

Void

Void

Void

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 5)

Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
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 See 10.2 to 10.6

10.2 Chemical stability: Stable at normal conditions.

Thermal decomposition / conditions to be avoided: Avoid contact with heat, sparks, flames and all other sources of ignition.

10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

10.4 Conditions to avoid No specific data available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

Additional information: Product is not classified as inflammable but can burn.

### SECTION 11: Toxicological information

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

These statements are based on data for components of the material or for similar materials.

Acute toxicity Harmful if inhaled.

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

CAS: 68649-11-6 Dec-1-ene, dimer, hydrogenated

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4h	11 mg/l (ATE)

#### Base oil, low-viscosity \*\*\*)

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)

CAS: 128-39-2 2,6-di-tert-butylphenol

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

by inhalation: Harmful by inhalation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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.

(Contd. on page 7)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 6)

**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.**Other information (about experimental toxicology):**

After swallowing: Swallow and particularly subsequent vomiting can lead to lung damage - pneumonia - pulmonary edema.

**Subacute to chronic toxicity:**

Prolonged and/or repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials.

**Additional toxicological information:**

The product shows the following dangers according to the calculation method of Regulation (EC) No 1272/2008 as issued in the latest version:

Asp. Tox. 1

Acute Tox. 4 (l)

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:****CAS: 68649-11-6 Dec-1-ene, dimer, hydrogenated**

EC50/48h	>1,000 mg/l (Daphnia magna)
EC50/72h	>1,000 mg/l (Scenedesmus subspicatus)
LL50/96h	>1,000 mg/l (Oncorhynchus mykiss)
NOEC/21d	125 mg/l (Daphnia magna)

**Base oil, low-viscosity \*\*\*)**

EC50/48h	>10,000 mg/l (Daphnia magna)
LC50/96h	>100 mg/l (Pimephales promelas) (OECD 203)
NOEC/21d	>10 mg/l (Daphnia magna)

**CAS: 128-39-2 2,6-di-tert-butylphenol**

EC50/48h	0.45 mg/l (daphnia)
LC50/96h	1.4 mg/l (Pimephales promelas)
NOEC/21d	0.035 mg/l (Daphnia magna)

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

### 12.3 Bioaccumulative potential

**CAS: 128-39-2 2,6-di-tert-butylphenol**

log Pow	4.92 (Octanol/water coefficient)
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**12.4 Mobility in soil** The product is not soluble in water. If it enters soil, it will adsorb to soil particles and will not be mobile.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6 Other adverse effects:

**Additional ecological information:****General notes:**

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

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 8)



# Safety data sheet

according to 1907/2006/EC, Article 31

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\*\*Version number 1

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Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 7)

## 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.

European waste catalogue	
13 01 11*	synthetic hydraulic oils
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

**Uncleaned packaging:** Empty packing completely. Handover to authorized disposal company.

#### Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR, IMDG, IATA Void

### 14.2 UN proper shipping name

ADR, IMDG, IATA Void

### 14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class Void

### 14.4 Packing group

ADR, IMDG, IATA Void

### 14.5 Environmental hazards:

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

UN "Model Regulation": Void

## SECTION 15: Regulatory information

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

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

None of the ingredients is listed.

#### National regulations:

#### Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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

**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.

#### Relevant phrases

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

(Contd. on page 9)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.01.2021

\*\*Version number 1

Revision: 27.01.2021

Trade name: **MAGIRUS CONTROL CS**

(Contd. of page 8)

H332 Harmful if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Department issuing SDS:** Magirus Service-Line

**Contact:**

Magirus Service-Line  
magirus-ersatzteilwesen@cnhind.com

**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)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

\* **Data compared to the previous version altered.**

\*\***Information about the version number:** Replaces all previous versions.