

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

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

- 1.1. Product identifier**  
Substance / mixture CONTEC CHAIN STAR EXTREME mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use chain lubricant  
Mixture uses advised against The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
- Distributor**  
Name or trade name Hermann Hartje KG  
Address Deichstraße 120-122, Hoya/Waser, 27318 Germany  
VAT Reg No DE116162847  
Phone 0049/4251/811-20  
E-mail rene.preuss@hartje.de  
Web address www.hartje.de
- Manufacturer**  
Name or trade name Nacházel, s.r.o.   
Address Průmyslová 11/1472, Praha 10 - Hostivař, 10219 Czech Republic  
Identification number (CRN) 25734458  
VAT Reg No CZ25734458  
Phone 222 351 140  
E-mail maziva@nachazel.cz  
Web address www.nachazel.cz
- Competent person responsible for the safety data sheet**  
Name Nacházel, s.r.o.  
E-mail maziva@nachazel.cz
- 1.4. Emergency telephone number**  
National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.

Aerosol 1, H222, H229  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
STOT SE 3, H336  
Aquatic Chronic 2, H411

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse physico-chemical effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

#### Most serious adverse effects on human health and the environment

May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

#### Hazardous substances

Hydrocarbons, C6, isoakenes, <5% n-hexane  
calcium-dihydroxide

#### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
P501 Dispose of container to by disposing in a hazardous waste receptacle.

### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 931-254-9 Registration number: 01-2119484651-34	Hydrocarbons, C6, isoakenes, <5% n-hexane	20-60	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	
Index: 601-004-00-0b CAS: 75-28-5 EC: 200-857-2	Isobutane	30-50	Flam. Gas 1, H220 Press. Gas, H280	1, 3

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date	28th March 2014	Version	5.0	
Revision date	30th July 2019			
Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21-XXXX	propane	10-20	Press. Gas, Flam. Gas 1, H220	3
CAS: 1305-62-0 EC: 215-137-3 Registration number: 01-2119475151-45	calcium-dihydroxide	3-10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	
CAS: 7446-26-6 EC: 231-203-4	Zinc pyrophosphate	1-<5	Aquatic Chronic 2, H411	
Index: 601-004-01-8 CAS: 106-97-8 EC: 203-448-7	butane	1-2	Press. Gas, Flam. Gas 1, H220 Muta. 1B, H340 Carc. 1A, H350	1, 2, 3, 4
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2219463881-32	zinc oxide	<1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

### Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note S: This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).
- Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)  
Press. Gas (Liq.)  
Press. Gas (Ref. Liq.)  
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. Do not provide liquid through the mouth if the affected person is unconscious or suffers from spasm. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date	28th March 2014	Version	5.0
Revision date	30th July 2019		

### **If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

### **If swallowed**

Unlikely.

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

#### **If inhaled**

Inhaling vapours can cause corrosion of the breathing system. May cause drowsiness or dizziness.

#### **If on skin**

Causes skin irritation.

#### **If in eyes**

Causes serious eye damage.

#### **If swallowed**

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### **Unsuitable extinguishing media**

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### **5.3. Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

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

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

### **6.2. Environmental precautions**

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

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

See the Section 7, 8 and 13.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date	28th March 2014	Version	5.0
Revision date	30th July 2019		

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

Storage class	2B - Aerosols
Content	200 ml
Packaging type	spray
Material of package	FE (40), Steel (Metals)



Storage temperature	min 0 °C, max 40 °C
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#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

##### DNEL

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	13964 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	5306 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	1377 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	1131 mg/kg	Systemic chronic effects	
Consumers	Oral	1301 mg/kg bw/day	Systemic chronic effects	

zinc oxide

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	0.83 mg/kg	Systemic acute effects	
Consumers	Inhalation	2.5 mg/ml	Systemic acute effects	
Consumers	Dermal	83 mg/kg	Systemic acute effects	
Workers	Inhalation	5 mg/ml	Systemic acute effects	

##### PNEC

zinc oxide

Route of exposure	Value	Determining method
Microorganisms in wastewater treatment plants	0.052 mg/l	
Soil (agricultural)	35.6 mg/kg	

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

zinc oxide

Route of exposure	Value	Determining method
Sea sediments	56.5 mg/kg	
Freshwater sediment	117.8 mg/kg	
Seawater	0.0061 mg/l	
Freshwater environment	0.0206 mg/l	

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

## SECTION 9: Physical and chemical properties

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

Appearance	aerosol
Physical state	liquid at 20°C
color	white
Odour	after solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	40-70 °C (liquid)
Flash point	<-35 °C (propellant)
Evaporation rate	data not available
Flammability (solid, gas)	Extremely flammable aerosol.
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	250 hPa at 20°C
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available
Data not available.	

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

### 9.2. Other information

Density 0.63 g/cm<sup>3</sup> at 20°C (Mixture including propellant:)  
ignition temperature data not available  
content of organic solvents (VOC) 0.80 kg/kg  
solid content (dry matter) 20 % volume

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable under normal conditions.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Protect against strong acids, bases and oxidizing agents.

### 10.4. Conditions to avoid

Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

calcium-dihydroxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>	OECD 425	>2000 mg/kg		Rat		
Dermal	LD <sub>50</sub>	OECD 402	>2500 mg/kg		Rabbit		

CONTEC CHAIN STAR EXTREME

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>		>2000 mg/kg		Rat		

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>	OECD 401	16750 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )		
Dermal	LD <sub>50</sub>	OECD 402	3350 mg/kg bw	4 hour	Rabbit		
Inhalation (vapor)	LC <sub>50</sub>	OECD 403	259354 mg/m <sup>3</sup>	4 hour	Rat ( <i>Rattus norvegicus</i> )		
Oral	LD <sub>50</sub>		>5000 mg/kg		Rat ( <i>Rattus norvegicus</i> )		
Dermal	LD <sub>50</sub>		>3000 mg/kg		Rat ( <i>Rattus norvegicus</i> )		
Inhalation (vapor)	LC <sub>50</sub>		>20 mg/l	4 hour	Rat ( <i>Rattus norvegicus</i> )		
	Log Pow		4				
	NOELR		3 mg/l	72 hour	<i>Pseudokirchneriella subcapitata</i>		

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

zinc oxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD <sub>50</sub>	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		
Inhalation (aerosols)	LC <sub>50</sub>	OECD 403	5.7 mg/l		Rat (Rattus norvegicus)		
	NOEC		0.017 mg/l	3 day	Pseudokirchneriella subcapitata		

Zinc pyrophosphate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>		>2000 mg/kg		Rat		výrobce

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Causes serious eye damage.

### 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.

### Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date	28th March 2014	Version	5.0
Revision date	30th July 2019		

### Acute toxicity

Toxic to aquatic life with long lasting effects.

calcium-dihydroxide

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	OECD 203	50.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
ErC <sub>50</sub>	OECD 201	184.57 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC <sub>50</sub>	OECD 202	49.1 mg/l	48 hour	Daphnia (Daphnia magna)	
NOEC	OECD 201	48 mg/l	3 day	Algae (Selenastrum capricornutum)	

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Method	Value	Time of exposure	Species	Environment
ErL 50		13.6 mg/l	72 hour	Pseudokirchneriella subcapitata	
EL 50		31.9 mg/l	48 hour	Daphnia (Daphnia magna)	

propane

Parameter	Method	Value	Time of exposure	Species	Environment
Log Pow		2.86			
BCF		13			

zinc oxide

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		1.793 mg/l	96 hour	Fishes (Branchydanio rerio)	
ErC <sub>50</sub>	OECD 201	0.136 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
EC <sub>50</sub>	OECD 202	2.6 mg/l	48 hour	Daphnia (Daphnia magna)	

Zinc pyrophosphate

Parameter	Method	Value	Time of exposure	Species	Environment
ErC <sub>50</sub>	OECD 201	4.7 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC <sub>50</sub>	OECD 202	26 mg/l	48 hour	Daphnia (Daphnia magna)	

### Chronic toxicity

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Value	Time of exposure	Species	Environment
NOEL	7.14 mg/l	21 hour	Daphnia (Daphnia magna)	
NOEL	4.09 mg/l	28 day	Fishes (Oncorhynchus mykiss)	

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

### More information

Data not available.

### 12.2. Persistence and degradability

#### Biodegradability

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Value	Time of exposure	Environment	Result
	98 %	28 day		

Data not available.

### 12.3. Bioaccumulative potential

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	3.6				

Not available.

### 12.4. Mobility in soil

Partition coefficient n-octanol / water: n-hexane Log pow 3.9

### 12.5. Results of PBT and vPvB assessment

Data not available.

### 12.6. Other adverse effects

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling. Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

14 06 03 other solvents and solvent mixtures \*  
15 01 11 metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers \*

#### Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances \*  
16 05 04 gases in pressure containers (including halons) containing hazardous substances \*

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

### 14.3. Transport hazard class(es)

2 Gases

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

### 14.4. Packing group

not available

### 14.5. Environmental hazards

Yes

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

#### Additional information

Hazard identification No.



UN number

1950

Classification code

5F

Safety signs

2.1+ hazardous for the environment



#### Road transport - ADR

Special provisions 190, 327, 625

Limited quantities 1 L

Excepted quantities E0

#### Packaging

Packing instructions P207, LP02

Special packing provisions PP87, RR6, L2

Mixed packing provisions MP9

Transport category 2

Tunnel restriction code (D)

#### Special provision for

packages V14

loading, unloading and handling CV9, CV12

#### Railway transport - RID

Special provisions 190, 327, 344, 625

#### Packaging

Packing instructions P207, LP02

Special packing provisions PP87, RR6, L2

Mixed packing provisions MP9

Transport category 0

#### Special provision for

packages W 14

loading, unloading and handling CW 9, CW 12

#### Marine transport - IMDG

Hazard initiator aerosoly

EmS (emergency plan) F-D, S-U

MFAG 620

Marine Pollutant Yes

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

### SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. The Aerosol Dispensers Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

#### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

butane

Restriction	Conditions of restriction
28	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <ol style="list-style-type: none"><li>1. Shall not be placed on the market, or used,<ul style="list-style-type: none"><li>— as substances,</li><li>— as constituents of other substances, or,</li><li>— in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none"><li>— either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li><li>— the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li></ul></li></ul></li></ol> <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <ol style="list-style-type: none"><li>2. By way of derogation, paragraph 1 shall not apply to:<ol style="list-style-type: none"><li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li><li>(b) cosmetic products as defined by Directive 76/768/EEC;</li><li>(c) the following fuels and oil products:<ul style="list-style-type: none"><li>— motor fuels which are covered by Directive 98/70/EC,</li><li>— mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li><li>— fuels sold in closed systems (e.g. liquid gas bottles);</li></ul></li><li>(d) artists’ paints covered by Regulation (EC) No 1272/2008;</li><li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li></ol></li></ol>

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date 28th March 2014  
Revision date 30th July 2019 Version 5.0

butane

Restriction	Conditions of restriction
29	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <p>1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none"><li>— as substances,</li><li>— as constituents of other substances, or,</li><li>— in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none"><li>— either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li><li>— the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li></ul></li></ul> <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"><li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li><li>(b) cosmetic products as defined by Directive 76/768/EEC;</li><li>(c) the following fuels and oil products:<ul style="list-style-type: none"><li>— motor fuels which are covered by Directive 98/70/EC,</li><li>— mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li><li>— fuels sold in closed systems (e.g. liquid gas bottles);</li></ul></li><li>(d) artists’ paints covered by Regulation (EC) No 1272/2008;</li><li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li></ul>

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
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.

### Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P211	Do not spray on an open flame or other ignition source.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CONTEC CHAIN STAR EXTREME

Creation date	28th March 2014	Version	5.0
Revision date	30th July 2019		

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P102	Keep out of reach of children.
P501	Dispose of container to by disposing in a hazardous waste receptacle.

### A list of additional standard phrases used in the safety data sheet

EUH066 Repeated exposure may cause skin dryness or cracking.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds

# SAFETY DATA SHEET

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## CONTEC CHAIN STAR EXTREME

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vPvB Very Persistent and very Bioaccumulative

Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Muta.	Germ cell mutagenicity
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.