

SAFETY DATA SHEET



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

Contec Chain Star Extreme Sp.

Date of creation	27. February 2017	Revision no.	0
Date of revision	22. November 2015	Version	4

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

1.1 Product identifier
Substance / mixture
Number
Other names of the mixture

Contec Chain Star Extreme Sp.
mixture
SF670/MA1
white chains lubricant

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

chains lubricant

Not recommended use of the mixture

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
Phone	0049/4251/811-20
Fax	0049/4251/811-159
E-mail	rene.preuss@hartje.de
Web address	www.hartje.de

Manufacturer

Name or trade name	Nacházel, s.r.o. - Bike
Address	Průmyslová 1472, Praha 10 - Hostivař, 102 19 Czech Republic
Phone	+420 222 351 140
Fax	+420 222 351 149
E-mail	maziva@nachazel.cz
Web address	bikeworkx.cz

Competent person responsible for the safety data sheet

Name	Ing. Martina Šrámková
E-mail	martina_sramkova@volny.cz

1.4 Emergency telephone number

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals

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
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H336
Aquatic Chronic 2, H411

Full text of all classifications and H-phrases is given in the section 16.

The most serious adverse physico-chemical effects

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

The most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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2.2 Label elements Hazard pictogram



Signal word
Danger

Hazardous substances

Uhlovodík, C6, isoalkany, <5% n-hexan
calcium-dihydroxide

Standard hazardous 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.

Instructions for safe handling

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.
P243 Take precautionary measures against static discharge.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 Dispose of contents/container to local regulations.

2.3 Other hazards

Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) no. 1272/2008.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Mixture of substances specified below and additives.

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

Identification numbers	Name of the substance	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
EC: 931-254-9 Registration number: 01-2119484651-34	Uhlovodík, C6, isoalkany, <5% n-hexan	20-60	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	Propane	10-20	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	2

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Identification numbers	Name of the substance	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
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	
Index: 601-037-00-0 CAS: 110-54-3 EC: 203-777-6 Registration number: 01-2119474209-33	n-hexane	1,8-<5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 2, H411	3
Index: 601-004-00-0a CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	Butane	1-2	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2
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 U: 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 substance with a specific concentration limit

Full text of all classifications and H-phrases 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. 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 the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

Inhalation

Move the affected person to fresh air immediately while paying attention to your own safety; do not let the person walk! Depending on the situation, rinsing of the mouth and/or nose as appropriate with water can be recommended. Change the clothes of the affected person if contaminated by the substances. Protect the affected person against growing cold. Depending on the situation, call medical rescue service or ensure medical treatment considering the need of further observation for at least 24 hours.

Skin contact

Remove contaminated clothes immediately; take off any rings, watches, bracelets before or during washing if used in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Cover corroded parts of skin with sterile dressing; do not apply ointments or other medicines on the skin. Cover the person to ensure protection against growing cold. Depending on the situation, call medical rescue service or ensure medical treatment.

Eye contact

Rinse the eyes immediately with a flow of running water, open the eyelids wide (also using force if needed); remove contact lenses immediately if worn by the 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, specialized if possible, as quickly as possible. Everyone must be referred for treatment even if affected only a little.

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Ingestion

DO NOT INDUCE VOMITING - danger of further damage to the gastrointestinal tract!!! Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Considering an almost immediate effect on the mucous membranes, providing tap water quickly is preferred to any delay due to looking for cooled liquids - the condition of the mucous membrane worsens irreparably with every minute of delay! Carbonated or mineral water is not suitable as they may release gaseous carbon dioxide. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs). The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT GIVE ACTIVATED CARBON! (It makes an examination of the gastrointestinal tract membranes more difficult due to their black colouring and does not have a favourable effect with acids and bases.) Do not give anything to eat. Do not give anything by mouth if the person is unconscious or if having cramps. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

Possible irritation of airways, cough, headache.

Skin contact

Painful reddening, irritation.

Eye contact

Not expected.

Ingestion

Irritation, nausea.

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

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3 Advice for firefighters

The mixture is extremely flammable. 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

Remove all ignition sources; provide sufficient ventilation. Use personal protective equipment for work. Follow the instructions in Sections 7 and 8.

6.2. Environmental precautions

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

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 Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.

6.4 Reference to other sections

7, 8 and 13.

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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 areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Electrostatic charge may be formed during use; use only earthed piping (tubing) when repumping. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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. Do not expose to sunlight.

Storage class	2B - Aerosols
Content	200 ml, 400 ml
Type of packaging	Liquid in aerosol containers
Material of package	FE (40), Steel (Metals)



FE

Storage temperature min 0 °C, max 40 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Cleaning rags, paper and similar material, which was used to absorb spilled product must be controlled to collect and dispose of. Caution: fire hazard danger until the diluent is completely evaporated.

7.3 Specific end use(s)

Follow the instructions on the label of the product.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

none

DNEL

Uhlovodík, C6, isoalkany, <5% n-hexan

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Workers	Dermal	13964 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	5306 mg/m ³	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 the value of
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	

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PNEC

zinc oxide

Route of exposure	Value	Determining the value of
Microorganisms in wastewater treatment plants	0.052 mg/l	
Soil (agricultural)	35.6 mg/kg	
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 usual measures 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 against the product. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Use barrier creams for skin protection, they should however not be applied once exposure has occurred. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant against elevated temperatures. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of toxic 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid in aerosol containers
Physical state	liquid at 20°C
color	ligh milky
Odour	charakteristic
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
Flash point	<0 °C
Evaporation rate	data not available
Flammability (solid, gas)	highly flammable liquid
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

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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
They are not available	

9.2 Other information

Density	0.63 g/cm ³ at 20 °C
auto-ignition temperature	data not available
solid content (dry matter)	25 % volume
Max. VOC content in the product in its ready to use condition aerosol	0.75 kg/kg

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture is flammable.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

The product is stable under normal conditions.

10.4 Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5 Incompatible materials

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented.

10.6 Hazardous decomposition products

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides.

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.

Butane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LC 50		658 mg/l	4 hour	Rat (Rattus norvegicus)	
	Log Pow		2.89			
	Log Pow		2.89			

calcium-dihydroxide

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

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

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n-hexane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD 50		>16000 mg/kg bw			
Dermal	LD 50		>20000 mg/kg bw			
Inhalation	LC 50		>17600 mg/m ³		Rat	
Dermal	LD 50		>2000 mg/kg		Rat (<i>Rattus norvegicus</i>)	
Inhalation (gases)	LC 50		31.86 ppm	4 hour	Rat (<i>Rattus norvegicus</i>)	

Uhlovodík, C6, isoalkany, <5% n-hexan

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

zinc oxide

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

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.

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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

Based on available data the classification criteria are not met.

They are not available

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Toxic to aquatic life with long lasting effects.

calcium-dihydroxide

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

n-hexane

Parameter	Method	Value	Time of exposure	Species	Environment
LC 50		2.5 mg/l		Fishes (Oncorhynchus mykiss)	
EC 50		50 mg/kg		Other aquatic organisms	
EC 50		2.1 mg/l	48 hour	Daphnia (Daphnia magna)	
Log Pow		3.9			

Uhlovodík, C6, isoalkany, <5% n-hexan

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

zinc oxide

Parameter	Method	Value	Time of exposure	Species	Environment
LC 50		1.793 mg/l	96 hour	Fishes (Branchydanio rerio)	

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Parameter	Method	Value	Time of exposure	Species	Environment
ErC 50	OECD 201	0.136 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
EC 50	OECD 202	2.6 mg/l	48 hour	Daphnia (Daphnia magna)	

Chronic toxicity

Uhlovodík, C6, isoalkany, <5% n-hexan

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)	

They are not available

12.2 Persistence and degradability

Biodegradability

Uhlovodík, C6, isoalkany, <5% n-hexan

Parameter	Value	Time of exposure	Environment	Result
	98 %	28 day		

The product is not biodegradable.

12.3 Bioaccumulative potential

Uhlovodík, C6, isoalkany, <5% n-hexan

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

Insignificant.

12.4 Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in case of rain.

12.5 Results of PBT and vPvB assessment

The product is not classified as PBT or vPvB.

12.6 Other adverse effects

not available

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 an authorised person for waste removal (specialized company) authorised 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; remove waste in accordance with local and/or national regulations.

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Legislation of waste

Council Directive 75/442/EEC on waste, as last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

Code of type of waste

- 14 06 03 other solvents and solvent mixtures
- 16 05 04 gases in pressure containers (including halons) containing dangerous substances
- 15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

Code of type of waste packaging

- 15 01 04 metallic packaging
- 17 04 05 iron and steel

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

14.4 Packing group

not available

14.5 Environmental hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

14.6 Special precautions for user

Reference in Sections 4 to 8.

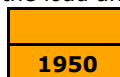
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not available

Additional information

Do not prepare the vehicle, which has a separate cargo space from the driver's compartment. Make sure that the vehicle driver is aware of the potential hazards of the load and knows what to do in case of an accident or danger.

The hazard identification number



(Kemler Code)

UN number

5F

Classification code

2.1

Safety signs



Road transport ADR

Special provision

190, 327, 344, 625

Limited amount

1 L

Packaging

Packaging instruction

P003, LP02

Special provision for packaging

PP17, PP87, RR6, L2

Packing provisions

MP9

Transport category

2

Tunnel restriction code

D

Special provision for

transport of pieces

V14

loading, unloading and manipulation

CV9, CV12

service

S2

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Railway transport - RID

Special provision 190, 327, 625
Extracted amounts E0

Packaging

Packaging instruction LP02, P003
Special provision for packaging L2, PP17, PP87, RR6
Packing provisions MP9
Transport category 2

Special provision for

transport of pieces W14
loading, unloading and manipulation CW12, CW9

Marine transport - IMDG

Initiator of hazard aerosoly
EMS (emergency plan) F-D, S-U
MFAg 620
Marine pollution Yes

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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 16 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.

15.2 Chemical safety assessment

has not yet done

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.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
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

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.
P243 Take precautionary measures against static discharge.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501 Dispose of contents/container to local regulations.

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

EUH 066 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 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
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
Ems	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50 % blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Transport
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	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
MFAG	First Aid Manual
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
PEL	Permissible Exposure Limit
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of chemicals (EP and Council Regulation (EC) No 1907/2006)
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
vPvB	Very Persistent and very Bioaccumulative

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w/w Weight by weight

Aerosol	Flammable aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
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. Publication of "Zásady pro poskytování první pomoci při expozici chemickým látkám" (doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Horňachová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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.