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

1.1. Product identifier

Name of product

Chain-and-Rope-Lube-Spray
Code-Nr. 115000

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

Recommended intended purpose(s)
Technical Aerosols

1.3. Details of the supplier of the safety data sheet

Distributor

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone +49(0)251 / 9322 - 0
Fax +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Aerosol 1	**H222, H229**	
Skin Irrit. 2	**H315**	
STOT SE 3	**H336**	
Aquatic Chronic 3	**H412**	

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02 GHS07

Signal word
Danger

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful 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 vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Special rules for supplemental label elements for certain mixtures
Contains Orange sweet, ext. May produce an allergic reaction.

2.3. Other hazards
Information pertaining to special dangers for human and environment
In use, may form flammable/explosive vapour-air mixture.

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

SECTION 3: Composition/ information on ingredients

3.1. Substances
not applicable

3.2. Mixtures
Description
Mixture of oils, solvents and propellant.

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
74-98-6	**200-827-9**	**propane**	**10 - 25**	**Flam. Gas 1, H220 / Press. Gas**
75-28-5	**200-857-2**	**isobutane**	**25 - 50**	**Flam. Gas 1, H220 / Press. Gas**
8028-48-6	**232-433-8**	**Orange, sweet, ext.**	**< 1**	**Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 /**
64742-49-0	**927-510-4**	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**10 < 25**	**Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336**

REACH

CAS No	Name	REACH registration number
74-98-6	propane	01-2119486944-21
75-28-5	isobutane	01-2119485395-27
8028-48-6	Orange, sweet, ext.	01-2119493353-35
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	01-2119475515-33

SECTION 4: First aid measures

4.1. Description of first aid measures
General information
Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.

In case of inhalation
Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.

In case of skin contact
In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

In case of eye contact
In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion
Do not induce vomiting.
Call for a doctor immediately.
Give water to drink in small sips.

4.2. Most important symptoms and effects, both acute and delayed
Physician's information / possible symptoms
Coughing
vomiting
Headache
Confusion
skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
Water spray jet

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
May lead to formation of explosive/easily ignitable vapour air mixtures.
Danger of bursting
Dense, black smoke.
In case of fire formation of dangerous gases possible.
Carbon dioxide (CO_2)

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.
Do not inhale explosion and/or combustion gases.

Additional information
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.
Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions
Inform pollution control authorities if product gets into the sewerage systems or open waters.
Do not discharge into surface waters/groundwater.
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
Ventilate area concerned
After taking up the material dispose according to regulation.

Additional Information
Sort out leaky cans and dispose according to regulations.

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.
Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin
Do not inhale aerosols
Ensure sufficient ventilation.

Hygiene measures

At work do not eat, drink and smoke.
Remove soiled or soaked clothing immediately.
Work in rooms with good ventilation.
Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Do not spray on a naked flame or any incandescent material.
Protect from heat and sunlight.
Vapours can form an explosive mixture with air.
The vapours of product are heavier than air.
Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

Advice on storage compatibility

Do not store with combustible materials.
Do not store together with animal feedstuffs.
Do not store together with food.
Do not store together with oxidizing agents.

Further information on storage conditions

Protect from sparks and flames.
Keep container tightly closed and store at cool and aired place.
Protect from heat and direct solar radiation.
Storage temperature may not exceed 40°C (=104°F).
Recommended storage temperature: room temperature.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
74-98-6	Propan (CH)	MAK, 8 hours	1800	1000	Formal, Methode:
		Short-term	7200	4000	NIOSH
75-28-5	iso-Butan (CH)	MAK, 8 hours	7600	3200	ZNS
		Short-term	1900	800	

DNEL-/PNEC-values
DNEL worker

CAS No	Substance name	Value	Code	Remark
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	2085 mg/m3	DNEL acute inhalative (systemic)	
		300 mg/kg bw/day	DNEL long-term dermal (systemic)	

DNEL Consumer

CAS No	Substance name	Value	Code	Remark
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	149 mg/kg bw/day	DNEL long-term dermal (systemic)	
		447 mg/m3	DNEL long-term inhalative (systemic)	
		149 mg/kg bw/day	DNEL long-term oral (repeated)	

! **Additional advice**
The statutory local and national regulations have to be observed.

8.2. Exposure controls
Respiratory protection
In case of insufficient ventilation or long-term effect use breathing apparatus.
Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.

Hand protection
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:: Nitrile rubber; 0,4mm; 480min;60min.

Eye protection
tightly fitting goggles

Other protection measures
protective clothing

Appropriate engineering controls
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
aerosol	yellowish	characteristic

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				

	Value	Temperature	at	Method	Remark
boiling point	80 - 100 °C				CAS: 64742-49-0
melting point	not determined				
Flash point	not applicable				Aerosol
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	1,4 Vol-%				Isobutane
Upper explosion limit	10,8 Vol-%				Propane
Vapour pressure	not determined				
Relative density	0,855 g/cm3				active agent
Vapour density	not determined				
Solubility in water					immiscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	not determined				
Viscosity kinematic	not determined				

Oxidising properties
No information available.

Explosive properties
The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
Reactions with strong oxidising agents.

10.4. Conditions to avoid
Keep away from heat.
Risk of bursting at temperatures above 50°C due to a pressure increase inside the container. Heating causes the pressure to increase. Risk of bursting through overheating.

10.5. Incompatible materials
Substances to avoid
Oxidising agent, strong

10.6. Hazardous decomposition products
Gases/vapours, toxic
Smoke.
Carbon monoxide and carbon dioxide.

Thermal decomposition

Remark	No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 8 ml/kg	rat		CAS: 64742-49-0
LD50 acute dermal	> 4 ml/kg	rat		CAS: 64742-49-0
LC50 acute inhalation	> 23,3 mg/l (4 h)	rat		CAS: 64742-49-0
Skin irritation	irritant			
Eye irritation	low irritant - no labeling duty			
Skin sensitization	slightly sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.

	Value	Species	Method	Validation
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

Specific target organ toxicity (single exposure)
May cause drowsiness or dizziness.

Experiences made from practice
Frequent and / or prolonged contact may lead to skin irritation
Vapours may cause dizziness, headaches and tiredness
Persons suffering from hypersensitivity (1 ppm) showed sensitization.
May cause drowsiness or dizziness.
Frequent contact specially if dried out may cause skin and eye irritations.

Additional information
The product is to be handled with the caution usual with chemicals.
Other hazardous properties may not be excluded.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LL/EL/IL50 1 - 10 mg/l (96 h)	Fish		CAS: 64742-49-0
Daphnia	LL/EL/IL50 1 - 10 mg/l (48 h)	Daphnia magna		CAS: 64742-49-0
Algae	LL/EL/IL50 10 - 100 mg/l (72 h)	Green algae		CAS: 64742-49-0
Bacteria	LL/EL/IL50 10 - 100 mg/l (4 h)	activated sludge		CAS: 64742-49-0

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
General regulation
Harmful to aquatic life with long lasting effects.
Do not allow uncontrolled leakage of product into the environment.
Product is not allowed to be discharged into the ground water or aquatic environment.
Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

! SECTION 13: Disposal considerations

13.1. Waste treatment methods

! Waste code No.	Name of waste
15 01 10*	packaging containing residues of or contaminated by hazardous substances
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product
Dispose of as hazardous waste.

Recommendations for packaging
Dispose of according to the local waste regulations.

General information
For proper waste disposal a complete emptying of the tin is necessary.
Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

Land and inland navigation transport ADR/RID
Hazard label(s) 2.1
tunnel restriction code D
Classification code 5F
transport in "limited quantities" according to 3.4 ADR is possible

Marine transport IMDG
MARINE POLLUTANT

SECTION 15: Regulatory information

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

VOC standard

VOC content	71 %
VOC value	465 g/L

15.2. Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Recommended uses and restrictions
National and local regulations concerning chemicals shall be observed.
For industrial use only.

Further information
Each user is responsible for the implementation of the national special regulations.
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.8

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.