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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 14.03.2014 / 0008

Replaces revision of / Version: 07.03.2013 / 0007

Valid from: 14.03.2014 PDF print date: 17.03.2014

Keramik-Schock-Rostloeser 300 mL Art.: 1641

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

1.1 Product identifier

Keramik-Schock-Rostloeser 300 mL

Art.: 1641

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

Rust remover

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC24 - Lubricants, greases, release products

PC35 - Washing and cleaning products (including solvent based products)

Process category [PROC]:

PROC 1 - Use in closed process, no likelihood of exposure.

PROC 2 - Use in closed, continuous process with occasional controlled exposure

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 8a - Wide dispersive indoor use of processing aids in open systems

ERC 8d - Wide dispersive outdoor use of processing aids in open systems

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr Telephone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement



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Skin Irrit. 2 H315-Causes skin irritation.

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

STOT SE 3 H336-May cause drowsiness or dizziness.

Aguatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

Aerosol 1 H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+,Extremely flammable

Dangerous for the environment, R52-53

R67

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

Hazard statement

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

Prevention

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 vapour or spray. P280-Wear protective gloves.

Response

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

Storage

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Disposal

P501-Dispose of contents/container in a safe way.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

Danger of bursting (explosion) when heated

When using: development of explosive vapour/air mixture possible.

REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons less than 5 %



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aromatic hydrocarbons

perfumes

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a. **3.2 Mixture**

S.E MIXTUIC	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	921-024-6 (REACH-IT List-No.)
CAS	CAS
content %	15-<20
Classification according to Directive 67/548/EEC	Highly flammable, F, R11
	Irritant, Xi, R38
	Dangerous for the environment, N, R51
	Dangerous for the environment, R53
	Harmful, Xn, R65
	R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	Asp. Tox. 1, H304
	STOT SE 3, H336
	Aquatic Chronic 2, H411

Kerosine (petroleum), hydrodesulfurized	
Registration number (REACH)	
Index	649-423-00-8
EINECS, ELINCS, NLP	265-184-9
CAS	CAS 64742-81-0
content %	5-10
Classification according to Directive 67/548/EEC	Harmful, Xn, R65
_	R66
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	919-446-0 (REACH-IT List-No.)
CAS	CAS
content %	1-<5
Classification according to Directive 67/548/EEC	Flammable, R10
	Dangerous for the environment, N, R51
	Dangerous for the environment, R53
	Harmful, Xn, R65
	R66
	R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226
	Asp. Tox. 1, H304
	STOT SE 3, H336
	Aquatic Chronic 2, H411

Isopentane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-006-00-1 /
EINECS, ELINCS, NLP	201-142-8
CAS	CAS 78-78-4
content %	0,1-<2,5



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۱ ا	01ifiti	February had flowers able Fe DAO
	Classification according to Directive 67/548/EEC	Extremely flammable, F+, R12
		Dangerous for the environment, N, R51
		Dangerous for the environment, R53
		Harmful, Xn, R65
		R66
		R67
	Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 1, H224
		Aquatic Chronic 2, H411
		Asp. Tox. 1, H304
		STOT SE 3, H336

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Wash thoroughly for several minutes using copious water.

Consult medical specialist.

Keep Data Sheet available.

Ingestion

Call doctor immediately - have Data Sheet available.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

Irritation of the respiratory tract

Coughing

Headaches

Effects/damages the central nervous system

With long-term contact:

Dermatitis (skin inflammation)

Drying of the skin.

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Water jet spray

CO₂

Extinction powder

Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Hydrocarbons



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Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air mixture

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.3 Advice for firefighters

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Only from a specialist.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 400 mg/m3



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Chemical Name	Hydrocarbons, C6-C7			< 5% n-hexane		Content %:15-<20
WEL-TWA: 600 mg/m3		WEL-STEL:				
BMGV:				Other information:		
Chemical Name	Kerosine (petroleum)	hydrodesulfi	ırized			Content %:5-10
WEL-TWA: 300 mg/m3 (AGW)	· · · · · · · · · · · · · · · · · · ·	WEL-STEL:				Contont 70.0 10
BMGV:			2(11) (71011)	Other information:		
Chemical Name	Hydrocarbons, C9-C1			s, aromatics (2-25%)		Content %:1-<5
WEL-TWA: 300 mg/m3 (AGW)		WEL-STEL:	2(II) (AGW)			
BMGV:				Other information:		
(B)						Content %:0,1-
Chemical Name	Isopentane					<2,5
WEL-TWA: 600 ppm (1800 mg/m3	3) (WEL), 1000	WEL-STEL:				
ppm (3000 mg/m3) (EU)	, , , , , , , , , , , , , , , , , , , ,					
BMGV:	<u>'</u>			Other information:	'	
	D 1					0 1 10
® Chemical Name	Butane	WEL OTEL	750 (4040	/ 0)		Content %:
WEL-TWA: 600 ppm (1450 mg/m3	3)	WEL-STEL:	750 ppm (1810 m			
BMGV:				Other information:		
Chemical Name	Propane					Content %:
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:				
BMGV:				Other information:		
Chemical Name	Isobutane					Content %:
		WEL-STEL:				COINCEIN 70.
WEL-TWA: 1000 ppm (ACGIH) BMGV:		WEL-SIEL:		Other information:		
DIVIGV				Other information:		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

^{** =} The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Hydrocarbons, C9-C12, n	-alkanes, isoalkanes, cyclics,	, aromatics (2-25%)				
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	330	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	44	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	71	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term	DNEL	570	mg/m3	
Consumer	Human - inhalation	Short term	DNEL	570	mg/m3	

Hydrocarbons, C6-C7, n-alka	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note			
	Environmental								
	compartment								
Consumer	Human - oral	Long term, systemic	DNEL	699	mg/kg				
		effects			bw/day				
Consumer	Human - dermal	Long term, systemic	DNEL	699	mg/kg				
		effects			bw/day				
					•	,			



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Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	2035	mg/kg bw/day	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

>= 0,4

Permeation time (penetration time) in minutes:

> 480 (Level 6)

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol Colour: Beige

Odour: Odourless
Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point: Not determined

Initial boiling point and boiling range:

n.a.



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-60 °C Flash point: Evaporation rate: n.a. Flammability (solid, gas): n.a. Lower explosive limit: 0,6 Vol-% Upper explosive limit: 10,9 Vol-% Vapour pressure: 4000 hPa (20°C) Vapour density (air = 1): Not determined Density: 0,6 g/ml (20°C)

Bulk density: n.a.

Solubility(ies):
Water solubility:
Insoluble

Partition coefficient (n-octanol/water):

Not determined

Auto-ignition temperature: 230 °C (Ignition temperature)

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Product is not explosive. When using: development of explosive

vapour/air mixture possible.

Oxidising properties: Not determined

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined

Solvents content: 98,1 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

See also section 7.

Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:		-				n.d.a.



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Specific target organ toxicity -		n.d.a.
single exposure (STOT-SE):		
Specific target organ toxicity -		n.d.a.
repeated exposure (STOT-RE):		
Aspiration hazard:		n.d.a.
Respiratory tract irritation:		n.d.a.
Repeated dose toxicity:		n.d.a.
Symptoms:		n.d.a.
Other information:		Classification according
		to calculation procedure.

Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Skin corrosion/irritation:						Product removes fat., Irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						Not sensitizising
Aspiration hazard:						Yes
Respiratory tract irritation:						May cause respiratory irritation.
Symptoms:						dizziness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness nausea and vomiting., Chemical pneumonitis (condition similar to pneumonia)

Kerosine (petroleum), hydrode	sulfurized					
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat		
Skin corrosion/irritation:						Repeated exposure may
						cause skin dryness or
						cracking.
Aspiration hazard:						Yes
Symptoms:						respiratory distress, blood
						in urine (haematuria),
						diarrhoea, vomiting, fever,
						heart/circulatory
						disorders, mucous
						membrane irritation,
						dizziness

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)										
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes				
•	t									
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral					
• •					Toxicity)					
Acute toxicity, by dermal route:	LD50	3400	mg/kg	Rat	OECD 402 (Acute					
					Dermal Toxicity)					



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Acute toxicity, by inhalation:	LC50	>13,1	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant, Analogous
					Dermal `	conclusion Repeated
					Irritation/Corrosion)	exposure may cause skin
					· ·	dryness or cracking.
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant, Analogous
					Irritation/Corrosion)	conclusion
Respiratory or skin sensitisation:						Not sensitizising
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative Benzene
						content: <0,1%
Reproductive toxicity:						Negative, Analogous
						conclusion
Specific target organ toxicity -						May cause drowsiness or
single exposure (STOT-SE):						dizziness.
Aspiration hazard:						Yes
Respiratory tract irritation:						Slightly irritant
Symptoms:						dizziness,
						unconsciousness,
						vomiting, annoyance, skin
						afflictions,
						heart/circulatory
						disorders, headaches,
						cramps, drowsiness,
						dizziness

Isopentane						
Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	1280	mg/l/4h	Rat		
Skin corrosion/irritation:				Human being		Not irritant Repeated exposure may cause skin dryness or cracking.
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						Yes
Symptoms:						dizziness, unconsciousness, diarrhoea, annoyance, headaches, cramps, circulatory disorders, drowsiness, mucous membrane irritation, dizziness nausea and vomiting.

Butane						
Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						ataxia, breathing difficulties, dizziness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness nausea and vomiting.

Propane



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Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes
Germ cell mutagenicity					OECD 471 (Bacterial	Negative
(bacterial):					Reverse Mutation Test)	_
Symptoms:						breathing difficulties,
						unconsciousness,
						frostbite, headaches,
						cramps, mucous
						membrane irritation,
						dizziness nausea and
						vomiting.

Isobutane						
Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	_
Symptoms:						unconsciousness, frostbite, headaches, cramps, dizziness nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and							n.d.a.
degradability:							
Bioaccumulative							n.d.a.
potential:							
Mobility in soil:							Product is slightly volatile.
Results of PBT and							n.d.a.
vPvB assessment							
Other adverse effects:							n.d.a.
Other information:							According to the recipe, contains no AOX.

Hydrocarbons, C6-C7,	n-alkanes, isoa	lkanes, cy	clics, < 5	% n-hexar	ne		
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	11,4	mg/l	Leuciscus idus	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
Toxicity to daphnia:	NOELR	21d	1	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction	
						Test)	
Toxicity to daphnia:	EC50	48h	3	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
Toxicity to algae:	EC50	72h	30	mg/l	Pseudokirchneriell	OECD 201	
					a subcapitata	(Alga, Growth	
						Inhibition Test)	
Persistence and							Readily biodegradable
degradability:							



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Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
Other information:	DOC				DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a.
Other information:	AOX	0	%		

Kerosine (petroleum), I	nydrodesulfuriz	ed					
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50		>10 -<	mg/l			
-			100				
Toxicity to fish:	LC50	96h	>1000	mg/l			
Toxicity to algae:	LC50		>10 -	mg/l			
			<100				
Persistence and							Readily biodegradable
degradability:							

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to daphnia:	NOELR	21d	0,28	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to daphnia:	NOEC/NO EL	21d	0,097	mg/l	Daphnia magna	,	
Toxicity to daphnia:	LOEC/LOE	21d	0,203	mg/l	Daphnia magna		
Toxicity to daphnia:	EC50	48h	10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	ErL50	72h	4,1-10	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	NOELR	72h	0,22- 0,76	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	EC50	72h	4,6	mg/l	Pseudokirchneriell a subcapitata	,	
Persistence and degradability:		28d	75	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Bioaccumulative potential:	Log Pow		3,7-6,7			,	
Bioaccumulative potential:	Log Pow		3,7-6,7				
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>100	mg/l			
Water solubility:			~20	mg/l			20°C

Isopentane							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	3,1	mg/l	Oncorhynchus mykiss		



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Toxicity to daphnia:	EC50	48h	2,3	mg/l	Daphnia magna	
Persistence and		12d	100	%		
degradability:						

Butane							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Propane							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

General statements

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name: UN 1950 AEROSOLS

Transport hazard class(es): 2.1 Packing group: Classification code: 5F LQ (ADR 2013): 1 L

LQ (ADR 2009): Not applicable Environmental hazards:

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS

Transport hazard class(es): 2.1 Packing group:







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F-D, S-U Marine Pollutant: n.a

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name: Aerosols, flammable

Transport hazard class(es): 2.1

Packing group:

Not applicable Environmental hazards:

Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

Observe incident regulations. VOC 1999/13/EC 595 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

2, 3, 8 Revised sections:

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Skin Irrit. 2, H315	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 38 Irritating to skin.
- 51 Toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.





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67 Vapours may cause drowsiness and dizziness.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation

Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario



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etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform ChemicaL Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))



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Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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