

Page 1 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

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

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

1.1 Product identifier

Hohlraumversiegelung hellbraun

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

Corrosion protection

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+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 number

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

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard Statement
Skin Irrit.	2	H315-Causes skin irritation.

STOT SE 3 H336-May cause drowsiness or dizziness.

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

Aerosol 1 H222-Extremely flammable aerosol.

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

2.2 Label elements

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



Page 2 of 19

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

Revision date / version: 22.02.2021 / 0015 Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun





Danger

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.

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 or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves.

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

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

P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

Dangerous vapours heavier than air.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **3.2 Mixtures**

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	01-2119475515-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	927-510-4
CAS	
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Asp. Tox. 1, H304
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Aquatic Chronic 2, H411

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119463258-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	919-857-5
CAS	
content %	10-<25



Page 3 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226 Asp. Tox. 1, H304
	STOT SE 3, H336

Sulfonic acids, petroleum, sodium salts	
Registration number (REACH)	01-2119527859-22-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	271-781-5
CAS	68608-26-4
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	269-924-1
CAS	68391-05-9
content %	<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 2, H411
	Skin Corr. 1B, H314
	Eye Dam. 1, H318

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

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

If the person is unconscious, place in a stable side position and consult a doctor.

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

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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. 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

Symptomatic treatment.

SECTION 5: Firefighting measures



Page 4 of 19

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

Revision date / version: 22.02.2021 / 0015 Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

5.1 Extinguishing media Suitable extinguishing media

Water jet spray

CO₂

Extinction powder

Large fire:

Water jet spray / alcohol resistant foam

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

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

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 from entering drainage system.

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.

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.

Avoid inhalation, and contact with eyes or skin.

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



(B)-

Page 5 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing.

Do not store with oxidizing agents.

Observe special regulations for aerosols!

Observe special storage conditions.

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

Store in a well ventilated place.

Observe special storage conditions.

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): 800 mg/m3

Chemical Name	Hydrocarbons, C	C7, n-alkanes, isoalkanes, cyclics			Content %:10- <25
WEL-TWA: 800 mg/m3		WEL-STEL:			<20
Monitoring procedures:		Draeger - Hydrocarbons 0,1%/c (8	1 03 571)		
morning procedures.	-	Draeger - Hydrocarbons 2/a (81 03			
	-	Compur - KITA-187 S (551 174)	,		
BMGV:			Other information:	(OEL acc. t	o RCP-method,
			paragraphs 84-87,	EH40)	
Chemical Name	Hydrocarbons, C	09-C11, n-alkanes, isoalkanes, cyclic	cs, <2% aromatics		Content %:10- <25
WEL-TWA: 800 mg/m3		WEL-STEL:			
Monitoring procedures:	-	Draeger - Hydrocarbons 0,1%/c (8			
		Draeger - Hydrocarbons 2/a (81 03 Compur - KITA-187 S (551 174)	•		
BMGV:			Other information:		o RCP-method,
			paragraphs 84-87,	EH40)	
Chemical Name	Butane				Content %:
WEL-TWA: 600 ppm (1450 mg/m	3)	WEL-STEL: 750 ppm (1810 n	ng/m3)		
Monitoring procedures:	-	Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993			
BMGV:	<u> </u>	OSHA F V2010 (II-Butane) - 1993	Other information:		
	_		Other information.		2 1 101
© Chemical Name	Propane	WEL OTEL			Content %:
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL: Compur - KITA-125 SA (549 954)			
Monitoring procedures:	-	OSHA PV2077 (Propane) - 1990			
BMGV:		OSHA F V2011 (Flopalle) - 1990	Other information:		
			Other information.		
Chemical Name	Isobutane				Content %:
WEL-TWA: 1000 ppm (EX) (ACG	IH)	WEL-STEL:	0)		
Monitoring procedures: BMGV:	=	Compur - KITA-113 SB(C) (549 36			
BIVIGV:			Other information:		
Chemical Name	Microcrystalline	paraffin wax and hydrocarbon wax			Content %:
WEL-TWA: 2 mg/m3 (paraffin wa	x, fume)	WEL-STEL: 6 mg/m3 (paraffir	n wax, fume)		
Monitoring procedures:					
BMGV:			Other information:		
Chemical Name	Oil mist, mineral				Content %:
WEL-TWA: 5 mg/m3 (Mineral oil,		WEL-STEL:			
working fluids, ACGIH) Monitoring procedures:		Draeger - Oil Mist 1/a (67 33 031)			
BMGV:	-	Draeger - Oil Wilst 1/a (01 33 031)	Other information:		
	5 "		Caron innomination.		0 1 161
Chemical Name	Paraffin waxes				Content %:



Page 6 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

WEL-TWA: 2 mg/m3 (paraffin wax, fume)		WEL-STEL: 6 mg/m3 (paraffin wax, fume)		
Monitoring procedures:	-	Compur - KITA-187 S (551 174)		
BMGV:		Other info	rmation:	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	149	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	447	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	149	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2085	mg/m3	

Area of application	n-alkanes, isoalkanes, cyclics Exposure route /	Effect on health	Descriptor	Value	Unit	Note
, and of application	Environmental compartment	2oc. on nount	2000110101	Laide	5	11010
Consumer	Human - oral	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	900	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	125	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	185	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	125	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1500	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	208	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	871	mg/m3	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,013	mg/l	
	Environment - marine		PNEC	0,0013	mg/l	
	Environment - sewage		PNEC	1,2	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	8,8	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,88	mg/kg dw	
	marine					
	Environment - soil		PNEC	7	mg/kg dw	
	Environment - water,		PNEC	0,0026	mg/l	
	sporadic (intermittent)				_	
	release					



(B)

Page 7 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

Consumer	Human - inhalation	Long term, systemic effects	DNEL	8	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	7,65	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	2,3	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	27	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,75	mg/kg bw/day	

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU), 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | 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.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

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.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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:

>= 0,12

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

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

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)



Page 8 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

Observe wearing time limitations for respiratory protection equipment.

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. Active substance: liquid.

Colour: Brown Odour: Characteristic Odour threshold: Not determined pH-value: Not determined Melting point/freezing point: Not determined

Initial boiling point and boiling range: Flash point: n.a. Evaporation rate: n.a. Flammability (solid, gas): n.a. Lower explosive limit: 0,6 Vol-%

Upper explosive limit: 10,9 Vol-% (When using: development of explosive vapour/air mixture

Not determined

possible.) 3500 hPa (20°C) Vapour pressure: Vapour density (air = 1): Not determined Density: 0,7 g/cm3 (20°C)

Bulk density: n.a.

Solubility(ies): Not determined Water solubility: Not miscible Partition coefficient (n-octanol/water): Not determined

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

Auto-ignition temperature: No

Decomposition temperature: Not determined Viscosity: Not determined

Explosive properties: Product is not explosive. Possible build up of explosive/highly

flammable vapour/air mixture. No

Oxidising properties:

9.2 Other information

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

80,51 % (Organic solvents) Solvents content:

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



GB)

Page 9 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

No dangerous reactions are known. **10.4 Conditions to avoid**

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Hydrocarbons, C7, n-alkanes, Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
, , , , , , , , , , , , , , , , , , ,			3 3		Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rat	OECD 402 (Acute	Analogous
3 , 3					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	Analogous
• •					Inhalation Toxicity)	conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	,	Not irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	9000	ppm	Rat	OECD 416 (Two-	Negative
					generation	
					Reproduction Toxicity	
					Study)	
Aspiration hazard:						Yes
Symptoms:						diarrhoea,
						headaches,
						dizziness,
						nausea and
						vomiting.



(B)

Page 10 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Symptoms:		drowsiness,
		unconsciousne
		heart/circulato
		disorders,
		headaches,
		cramps,
		drowsiness,
		mucous
		membrane
		irritation,
		dizziness,
		nausea and
		vomiting.,
		diarrhoea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
• •					Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	>18,5	mg/l/4h	Rat	OECD 403 (Acute	
• •					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Repeated
					Irritation/Corrosion)	exposure may
					·	cause skin
						dryness or
						cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
, 0					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
,·				typhimurium	Reverse Mutation Test)	Analogous
				1) [21	Troverse matation rest,	conclusion
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative,
ee eeatageet.y.				i raman semig	Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 478 (Genetic	Negative,
Jenn een matagemeny.				1.00	Toxicology - Rodent	Analogous
					dominant Lethal Test)	conclusion
Carcinogenicity:	NOAEC	1100	mg/m3	Mouse	OECD 453 (Combined	Female
			g,		Chronic	
					Toxicity/Carcinogenicity	
					Studies)	
Carcinogenicity:	NOAEC	>= 2200	mg/m3	Mouse	OECD 453 (Combined	Male
caromogornony.	110/120	7 - 2200	ing/inc	Mode	Chronic	Iviaio
					Toxicity/Carcinogenicity	
					Studies)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative,
repressive toxiony.					Developmental Toxicity	Analogous
					Study)	conclusion
Reproductive toxicity (Effects	NOAEL	>= 3000	mg/kg	Rat	OECD 415 (One-	Male
on fertility):	NONEL	>= 0000	bw/d	- rut	Generation	IVIGIO
on fortility).			DW/G		Reproduction Toxicity	
					Study)	
Reproductive toxicity (Effects	NOAEL	>= 1500	mg/kg	Rat	OECD 415 (One-	Female
on fertility):	INOALL	/- 1300	bw/d	Ivai	Generation	1 Gillale
on fortility).			DVV/G		Reproduction Toxicity	
					Study)	



Page 11 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Specific target organ toxicity -						May cause
single exposure (STOT-SE):						drowsiness or
						dizziness.,
						STOT SE 3,
						H336
Aspiration hazard:						Yes
Symptoms:						unconsciousness , headaches, dizziness, discoloration of the skin, vomiting,
						diarrhoea
Specific target organ toxicity -	NOAEL	3000	mg/kg/d	Rat	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE),					Dose 90-Day Oral	conclusion
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEC	1444	ppm	Rat	OECD 413 (Subchronic	Analogous
repeated exposure (STOT-RE), inhalat.:					Inhalation Toxicity - 90- Day Study)	conclusion

Sulfonic acids, petroleum, sodium salts									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Serious eye damage/irritation:						Eye Dam. 1			
Aspiration hazard:						No			

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>300-2000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Dam. 1
-					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
,					Mammalian Cell Gene	_
					Mutation Test)	

Butane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Aspiration hazard:						No



Page 12 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Symptoms:						ataxia, breathing
						difficulties,
						drowsiness,
						unconsciousness
						, frostbite,
						disturbed heart
						rhythm,
						headaches,
						cramps,
						intoxication,
						dizziness,
						nausea and
						vomiting.
Specific target organ toxicity -	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),					Repeated Dose Tox.	
inhalat.:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	

Propane Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
	LC50	658		Rat	rest method	Notes
Acute toxicity, by inhalation:	LC50	260000	mg/l/4h	Rat		Cassas Mala
Acute toxicity, by inhalation:	LCSU	260000	ppmV/4h	Rai		Gasses, Male,
						Analogous
011						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian	Negative
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	3
Reproductive toxicity	NOAEC	21,641	mg/l	71	OECD 422 (Combined	
(Developmental toxicity):			1119.1		Repeated Dose Tox.	
(Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Aspiration hazard:					i on gordening root,	No
Symptoms:						breathing
-, ,						difficulties,
						unconsciousne
						. frostbite.
						headaches.
						cramps, mucou
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.
Specific target organ toxicity -	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined	Tomang.
repeated exposure (STOT-RE),		.,	1119/1		Repeated Dose Tox.	
inhalat.:					Study with the	
minadi.					Reproduction/Developm.	
					Tox. Screening Test)	
Specific target organ toxicity -	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),	LOALL	21,071	1119/1	- Nat	Repeated Dose Tox.	
inhalat.:					Study with the	
IIIIaiai					Reproduction/Developm.	
					Tox. Screening Test)	

Isobutane								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat				



Page 13 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						No
Symptoms:						unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	-

Microcrystalline paraffin wax and hydrocarbon wax									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit					

SECTION 12: Ecological information

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

Hohlraumversiegelung h	nellbraun			•	,		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Other adverse							n.d.a.
effects:							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13,4	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LL50	96h	>13,4	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	1,53	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	NOELR	21d	1	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	10 - 30	mg/l	Pseudokirchneriell a subcapitata		
12.1. Toxicity to algae:	NOELR	72h	10	mg/l	Pseudokirchneriell a subcapitata		
12.1. Toxicity to algae:	ErL50	72h	10-30	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	6,3	mg/l	Pseudokirchneriell a subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	



Page 14 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

12.2. Persistence and	28d	98	%	OECD 301 F Readily
degradability:				(Ready biodegradable
				Biodegradability -
				Manometric
				Respirometry Test)
Water solubility:		2,6	mg/l	25°C

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria:	EL50	48h	0,95	mg/l			QSAR
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus	QSAR	
					mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Raphidocelis	OECD 201 (Alga,	
					subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	80	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.1. Toxicity to algae:	NOELR	72h	3	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.3. Bioaccumulative			5-6,7				High
potential:							
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Sulfonic acids, petroleum, sodium salts											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.5. Results of PBT							No PBT				
and vPvB assessment							substance, No				
							vPvB substance				
12.3. Bioaccumulative	Log Pow		22,12								
potential:											

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	0,26	mg/l							
12.1. Toxicity to daphnia:	EC50	48h	>0,1-1	mg/l	Daphnia magna						
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>0,01-	mg/l	Daphnia magna	OECD 211					
			0,1			(Daphnia magna					
						Reproduction Test)					
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,06	mg/l	Pseudokirchneriell	OECD 201 (Alga,					
					a subcapitata	Growth Inhibition					
					·	Test)					



Page 15 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

12.2. Persistence and		OECD 301 B	Readily
degradability:		(Ready	biodegradable
		Biodegradability -	
		Co2 Evolution	
		Test)	

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

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

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not to
							be expected
				-			(LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and							Readily
degradability:							biodegradable
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Microcrystalline paraffin wax and hydrocarbon wax											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	>100	mg/l							
12.1. Toxicity to fish:	NOEC/NOEL	96h	>100	mg/l							
12.1. Toxicity to daphnia:	NOEC/NOEL	96h	>1000	mg/l							
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l							
12.1. Toxicity to algae:	ErC50	24h	>10000	mg/l							
12.5. Results of PBT							No PBT				
and vPvB assessment							substance, No				
							vPvB substance				

SECTION 13: Disposal considerations

13.1 Waste treatment methods



Page 16 of 19

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

Revision date / version: 22.02.2021 / 0015 Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

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. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances 08 01 11 waste paint and varnish containing organic solvents or other hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

2.1

General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):
14.4. Packing group:

Classification code: 5F

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):
2.1
14.4. Packing group:

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

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable 14.3. Transport hazard class(es):

14.3. Transport hazard class(es):
2.1
14.4. Packing group:

14.5. Environmental hazards:

Not applicable

14.6. 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.

14.7. Transport in bulk according to Annex II of MARPOL 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.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:









Page 17 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered

according to storage, handling etc.).

according to storage, nandling etc.)			
Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of Qualifying quantity (tonnes) of	
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Discuss 20:12/10/20 (Govern // / milest i) 1 air 2 1 me product contains and case and a second					
Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity	Qualifying quantity	
			(tonnes) for the	(tonnes) for the	
			application of - Lower-tier	application of - Upper-tier	
			requirements	requirements	
18	Liquefied flammable	19	50	200	
	gases, Category 1 or 2				
	(including LPG) and				
	natural gas				

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

80,51 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 8, 9, 11, 12, 15

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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 (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Irrit. 2, H315	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 according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.



Page 18 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation

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

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid Asp. Tox. — Aspiration hazard

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Skin Corr. — Skin corrosion
Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

body weight bw

CAS Chemical Abstracts Service

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

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level

dw dry weight

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

EC **European Community** ECHA European Chemicals Agency

European Economic Community EEC **EINECS**

European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

ΕN **Furopean Norms**

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

etc. et cetera European Union FU

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

Globally Harmonized System of Classification and Labelling of Chemicals GHS

Global warming potential **GWP**

IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

Lethal Dose to 50% of a test population (Median Lethal Dose)



Page 19 of 19

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

Revision date / version: 22.02.2021 / 0015

Replacing version dated / version: 25.07.2019 / 0014

Valid from: 22.02.2021 PDF print date: 14.06.2021 Hohlraumversiegelung hellbraun

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt 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:

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