

Page 1 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

# 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

#### MoS2-Rostloeser XXL

# 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

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

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

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

#### **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:

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#### Telephone number of the company in case of emergencies:

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

#### **SECTION 2: Hazards identification**



Page 2 of 16

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

Revision date / version: 08.03.2021 / 0021 Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

#### 2.1 Classification of the substance or mixture

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

Hazard class Hazard category **Hazard statement** 

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

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)



Danger

H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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.

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

EUH066-Repeated exposure may cause skin dryness or cracking.

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### 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 %).

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

# n.a. 3.2 Mixtures

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	(64742-48-9)
content %	50-60
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304

2-Butoxyethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475108-36-XXXX
Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0



Page 3 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

CAS	111-76-2
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Eye Irrit. 2, H319
	Skin Irrit. 2, H315
	Acute Tox. 4, H332

Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-696-9
CAS	124-38-9
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	

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.

#### **Skin contact**

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### Eye contact

Remove contact lenses.

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

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

#### 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**

# 5.1 Extinguishing media Suitable extinguishing media

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher

#### 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



Page 4 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

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, sand, diatomaceous earth) 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.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid 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

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

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.

Store cool.

#### 7.3 Specific end use(s)

No information available at present.

#### **SECTION 8: Exposure controls/personal protection**



Page 5 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.03.2021 / 0021 Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

**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

	10-C13, n-alkanes, isoalkanes, cycli	cs, <2% aromatics	Content %:50-60
WEL-TWA: 800 mg/m3	WEL-STEL:		
Monitoring procedures: -	Draeger - Hydrocarbons 0,1%/c (81		
-	Draeger - Hydrocarbons 2/a (81 03	581)	
<u>-</u>	Compur - KITA-187 S (551 174)		
BMGV:		Other information: (C	EL acc. to RCP-method,
		paragraphs 84-87, EH	
		· • • · · · · · · · · · · · · · · · · ·	•
© Chemical Name 2-Butoxyethanol	1 MEL OTEL 50 (0.10 /	0) (145) 510	Content %:1-5
WEL-TWA: 25 ppm (123 mg/m3) (WEL), 20 ppm (98 mg/m3) (EU)	WEL-STEL: 50 ppm (246 mg/n	13) (VVEL, EU)	
Monitoring procedures: -	Compur - KITA-190 U(C) (548 873)		
	DFG MethNr. 2 (D) (Loesungsmitted)	elgemische 3), DFG (E)	(Solvent mixtures 3) - 2014,
-	2002 - EU project BC/CEN/ENTR/0		
-	NIOSH 1403 (ALCOHOLS IV) - 200	3	•
-	NIOSH 2549 (VOLATILE ORGANIC		ENING)) - 1996
-	OSHA 83 (2-Butoxyethanol (Butyl C		"
BMGV: 240 mmol butoxyacetic acid/mol creatinine in		Other information: Sk	(WEL)
Chemical Name     Carbon dioxide			Content %:1-5
	MEL CTEL: 45000 pp pp (2740)	) ( 2) (\\/\(\(\G\)\)	
WEL-TWA: 5000 ppm (9150 mg/m3) (WEL), 5000 ppm (9000 mg/m3) (EU)	WEL-STEL: 15000 ppm (2740)		
Monitoring procedures: -	Draeger - Carbon Dioxide 0,1%/a (0		
-	Draeger - Carbon Dioxide 0,5%/a (0		
-	Draeger - Carbon Dioxide 1%/a (Ch		
-	Draeger - Carbon Dioxide 100/a (81		
<u>-</u>	Draeger - Carbon Dioxide 5%/A (Ch	d 20 301)	
<u>-</u>	Compur - KITA-126 B (549 475)		
-	Compur - KITA-126 SA (549 467)		
-	Compur - KITA-126 SB (548 816)		
-	Compur - KITA-126 SF (549 491)		
-	Compur - KITA-126 SG (550 210)		
-	Compur - KITA-126 SH (549 509)		
-	Compur - KITA-126 UH (549 517)		
-	NIOSH 6603 (Carbon dioxide) - 199	)4	
-	OSHA ID-172 (Carbon dioxide in we		1990
BMGV:	,	Other information:	
Chemical Name     Oil mist, mineral			Content %:
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:		
working fluids, ACGIH)			
Monitoring procedures: -	Draeger - Oil Mist 1/a (67 33 031)		
BMGV:	, ,	Other information:	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	
	Environment - sediment,		PNEC	34,6	mg/kg dw	
	freshwater					
	Environment - soil		PNEC	2,8	mg/kg dw	
	Environment - sewage		PNEC	463	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,46	mg/kg dw	
	marine			-		



Page 6 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

	Environment - sporadic (intermittent) release		PNEC	9,1	mg/l
	Environment - soil		PNEC	2,33	mg/kg
	Environment - oral (animal feed)		PNEC	20	mg/kg
Consumer	Human - inhalation	Long term, local effects	DNEL	147	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d
Consumer	Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d
Consumer	Human - inhalation	Short term, local effects	DNEL	123	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3

- 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:



Page 7 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

With danger of contact with eyes.

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

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374). Minimum layer thickness in mm:

0.4

Permeation time (penetration time) in minutes:

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.

Protective hand cream recommended.

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.

Filter A P2 (EN 14387), code colour brown, white

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

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: Colourless Characteristic Odour: Odour threshold: Not determined pH-value: n.a.

Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined

Flash point:

n.a. Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 0,858 g/ml (20°C) Bulk density: n.a.

Solubility(ies): Not determined Water solubility: Insoluble

Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined



Page 8 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

Explosive properties: Product is not explosive.

Oxidising properties:

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

Not determined

Not determined

# **SECTION 10: Stability and reactivity**

No

#### 10.1 Reactivity

Pressure increase will result in danger of bursting.

#### 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

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

#### 10.5 Incompatible materials

Avoid contact with strong 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).

MoS2-Rostloeser XXL						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value,
						Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
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.
Symptoms:						n.d.a.

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	>2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	



Page 9 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

Skin corrosion/irritation:			Repeated
			exposure may
			cause skin
			dryness or
			cracking.
Serious eye damage/irritation:		OECD 405 (Acute Eye	Not irritant
		Irritation/Corrosion)	
Respiratory or skin	Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:		Sensitisation)	
Germ cell mutagenicity:		OECD 471 (Bacterial	Negative,
		Reverse Mutation Test)	Analogous
			conclusion
Carcinogenicity:		OECD 453 (Combined	Negative,
		Chronic	Analogous
		Toxicity/Carcinogenicity	conclusion
		Studies)	
Reproductive toxicity:		OECD 414 (Prenatal	Negative,
		Developmental Toxicity	Analogous
		Study)	conclusion
Reproductive toxicity:		OECD 421	Negative,
		(Reproduction/Developm	Analogous
		ental Toxicity Screening	conclusion
		Test)	
Specific target organ toxicity -			No indications of
single exposure (STOT-SE):			such an effect.
Specific target organ toxicity -		OECD 408 (Repeated	No indications of
repeated exposure (STOT-RE):		Dose 90-Day Oral	such an effect.,
		Toxicity Study in	Analogous
		Rodents)	conclusion
Aspiration hazard:			Yes
Symptoms:			unconsciousness
			, headaches,
			dizziness

2-Butoxyethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1200	mg/kg			
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	10-20	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit	Regulation (EC)	Skin Irrit. 2,
					440/2008 B.4 (DERMAL	Product removes
					IRRITATION/CORROSI	fat.
					ON)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Irrit. 2
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
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:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	_
					Mutation Test)	
Carcinogenicity:				Rat	OECD 451	Negative
					(Carcinogenicity Studies)	
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451	Negative
					(Carcinogenicity Studies)	



Page 10 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

Aspiration hazard:						No
Symptoms:						acidosis, ataxia,
						breathing
						difficulties,
						respiratory
						distress,
						drowsiness,
						unconsciousness
						, annoyance,
						coughing,
						headaches,
						gastrointestinal
						disturbances,
						insomnia, mucous
						membrane
						irritation,
						dizziness
Specific target organ toxicity -	NOAEL	<69	mg/kg	Rat	OECD 408 (Repeated	GIZZII 1000
repeated exposure (STOT-RE),	1107122	100	bw/d	- Tu	Dose 90-Day Oral	
oral:			2.1,0		Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	>150	mg/kg	Rabbit	OECD 411 (Subchronic	
repeated exposure (STOT-RE),			bw/d		Dermal Toxicity - 90-day	
dermal:					Study)	

Carbon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						unconsciousness
						, blisters by skin-
						contact,
						vomiting,
						frostbite,
						annoyance,
						palpitations,
						itching,
						headaches,
						cramps, ear
						noises, dizziness

# **SECTION 12: Ecological information**

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

MoS2-Rostloeser XXL							
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.



Page 11 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

100 D		1			T ( ( )
12.2. Persistence and					The surfactant(s)
degradability:					contained in this
					mixture
					complies(comply)
					with the
					biodegradability
					criteria as laid
					down in
					Regulation (EC)
					No.648/2004 on
					detergents. Data
					to support this
					assertion are
					held at the
					disposal of the
					competent
					authorities of the
					Member States
					and will be made
					available to
					them, at their
					direct request or
					at the request of
					a detergent
					manufacturer.
12.3. Bioaccumulative					n.d.a.
potential:					II.u.a.
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:					
Other information:	AOX				According to the
					recipe, contains
					no AOX.

Hydrocarbons, C10-C13	, n-alkanes, isc	oalkanes, cy	clics, <2% a	romatics			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	0,1	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,18	mg/l	Daphnia magna		
12.1. Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	80	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		5,5-7,2				
12.4. Mobility in soil:	Log Koc		>3				



Page 12 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

12.5. Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
12.6. Other adverse					Product floats on
effects:					the water
					surface.
Water solubility:		~10	mg/l		Slight

2-Butoxyethanol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus	OECD 203 (Fish,	140103
12.1. Toxiony to non.	2000	3011	1777	1119/1	mykiss	Acute Toxicity	
					,	Test)	
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204 (Fish,	
·=···· · exactly to the th			1 .00		2.46,4466	Prolonged Toxicity	
						Test - 14-Day	
						Study)	
12.1. Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
			1333			(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211	
			100			(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
	- 300			····•	a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
committy to engage			-55		a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
,						Biodegradability -	J
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	>99	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
3						Biodegradability -	J
						Zahn-	
						Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	BCF		3,2			,	Slight
ootential:							, and the second
12.3. Bioaccumulative	Log Pow		0,81			OECD 107	Not to be
ootential:						(Partition	expected
						Coefficient (n-	·
						octanol/water) -	
						Shake Flask	
						Method)	
12.4. Mobility in soil:	H (Henry)		0,00000	atm*m3/m		,	
•	' - '		16	ol			
12.4. Mobility in soil:	Koc		67				Expert judgement
12.5. Results of PBT							No PBŤ
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	
-		1		_	putida		

Carbon dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	35	mg/l	Salmo gairdneri		
Other information:	Log Kow		0,83				



Page 13 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

12.6. Other adverse				Greenhouse
effects:				effect
Global warming		1		
potential (GWP):				

### **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. (2014/955/EU)

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

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

#### **SECTION 14: Transport information**

#### **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): 2.1 14.4. Packing group: Classification code: 5F LQ: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

2.1 14.3. Transport hazard class(es):

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): 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.











Page 14 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

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:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! 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 oterage, mananing oter	<i>/</i> ·		
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
P3b	11.1, 11.2	5000 (netto)	50000 (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 2010/75/EU (VOC):

### REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

11, 15

~ 58 %

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
Asp. Tox. 1, H304	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).

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Asp. Tox. — Aspiration hazard

Aerosol — Aerosols



Page 15 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

Acute Tox. — Acute toxicity - oral

Eye Irrit. — Eye irritation Skin Irrit. — Skin irritation

Acute Tox. — Acute toxicity - inhalation

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR 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

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)

BSEF The International Bromine Council

bw body weight

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

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

EC European Community
ECHA European Chemicals Agency
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)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

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

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

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



Page 16 of 16

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

Revision date / version: 08.03.2021 / 0021

Replacing version dated / version: 12.07.2019 / 0020

Valid from: 08.03.2021 PDF print date: 14.06.2021 MoS2-Rostloeser XXL

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

Evaluation, Authorisation and Restriction of Chemicals)

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.

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

Telephone Tel.

**UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

very persistent and very bioaccumulative vPvB

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

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