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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0002
Replacing version dated / version: 18.10.2021 / 0001
Valid from: 01.11.2021
PDF print date: 01.11.2021
Rust Remover MoS2 400 ml
Art.: 9101356

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

Rust Remover MoS2 400 ml Art.: 9101356

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:
Rust remover
Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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 (BRC) +1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification	of the substance or mixtur	e						
Classification acco	Classification according to Regulation (EC) 1272/2008 (CLP)							
Hazard class	Hazard category	Hazard statement						
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.						
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)



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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.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics Distillates (petroleum), hydrotreated light naphthenic

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

EINECS, ELINCS, NLP, REACH-IT List-No.

3.1 Substances	
n.a.	
3.2 Mixtures	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics,	
<2% aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	926-141-6
CAS	
content %	50-<75
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light naphthenic	
Registration number (REACH)	
Index	649-466-00-2

265-156-6

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CAS	64742-53-6
content %	10-<25
Classification according to Regulation (EC) 1272/2008	Asp. Tox. 1, H304
(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.

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

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.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

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. drying of the skin. Dermatitis (skin inflammation) Ingestion: Nausea vomiting Danger of aspiration. oedema of the lungs Chemical pneumonitis (condition similar to pneumonia) **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 Extinction powder



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Water jet spray 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 Oxides of sulphur Toxic gases Danger of bursting (explosion) when heated Possible build up of explosive/highly flammable vapour/air mixture. 5.3 Advice for firefighters For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. 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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary. Avoid contact with eyes or skin. If applicable, caution - risk of slipping. 6.1.2 For emergency responders See section 8 for suitable protective equipment and material specifications. **6.2 Environmental precautions** Prevent from entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities. 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. Fill the absorbed material into lockable containers. 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



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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 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. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Observe special regulations for aerosols! Observe special storage conditions. Do not store with flammable or self-igniting materials. 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

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1200 mg/m3

^(B) Chemical Name	2	s, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	6	Content
	aromatics			%:50-<75
WEL-TWA: 1200 mg/m3	(>=C7 normal	WEL-STEL:		
and branched chain alkanes)				
Monitoring procedures:	-]	Draeger - Hydrocarbons 0,1%/c (81 03 571)		
	-]	Draeger - Hydrocarbons 2/a (81 03 581)		
	- (Compur - KITA-187 S (551 174)		
BMGV:		Other information	ı :	
Chemical Name	Propane			Content %:
Image: Chemical NameWEL-TWA:1000 ppm (Additional content)	1	WEL-STEL:		Content %:
- Chemieur i tume	CGIH)	WEL-STEL: Compur - KITA-125 SA (549 954)		Content %:
WEL-TWA: 1000 ppm (A	CGIH) - (Content %:
WEL-TWA: 1000 ppm (A	CGIH) - (Compur - KITA-125 SA (549 954)		Content %:
WEL-TWA: 1000 ppm (At Monitoring procedures:	CGIH) - (Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990	:	Content %:
WEL-TWA: 1000 ppm (At Monitoring procedures: BMGV:	CGIH) - (- (Isobutane	Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990	 ::	



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BMGV: ---

Other information: Chemical Name Oil mist, mineral Content %: WEL-TWA: 5 mg/m3 (Mineral oil, WEL-STEL: --excluding metal working fluids, ACGIH) Draeger - Oil Mist 1/a (67 33 031) Monitoring procedures: BMGV: Other information:

Distillates (petroleum), hydrotreated light naphthenic									
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note			
	Environmental		or						
	compartment								
Consumer	Human - oral	Long term,	DNEL	0,74	mg/kg				
		systemic effects			bw/day				
Workers / employees	Human - inhalation	Long term, local	DNEL	5,6	mg/m3				
		effects							
Workers / employees	Human - dermal	Long term,	DNEL	1	mg/kg				
		systemic effects							
Workers / employees	Human - inhalation	Long term,	DNEL	2,7	mg/m3				
1 4		systemic effects			-				
Workers / employees	Human - inhalation	Short term, local	DNEL	5,4	mg/m3				
1 4		effects			-				

⁽¹⁰⁾ 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.



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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: Chemical resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: $\geq = 0,35$ Permeation time (penetration time) in minutes: $\geq = 480$ 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. 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 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.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Physical state: Aerosol. Active substance: liquid. Colour: Dark green Odour: Characteristic Melting point/freezing point: There is no information available on this parameter. Boiling point or initial boiling point and boiling range: There is no information available on this parameter. Flammability: Does not apply to aerosols. Lower explosion limit: There is no information available on this parameter. There is no information available on this parameter. Upper explosion limit: Flash point: Does not apply to aerosols. Auto-ignition temperature: Does not apply to aerosols. Decomposition temperature: There is no information available on this parameter. Mixture is non-soluble (in water). pH: <=20,5 mm2/s (40°C) Kinematic viscosity: Insoluble Solubility: Partition coefficient n-octanol/water (log value): Does not apply to mixtures. Vapour pressure: There is no information available on this parameter. Density and/or relative density: 0,76 g/cm3 Relative vapour density: Does not apply to aerosols. Particle characteristics: Does not apply to aerosols. 9.2 Other information **Explosives:** When using: development of explosive vapour/air mixture possible. Oxidising liquids: No

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** 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 hazard classes as defined in Regulation (EC) No 1272/2008 Possibly more information on health effects, see Section 2.1 (classification).



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Rust Remover MoS2 400) ml					
Art.: 9101356						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
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						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Hydrocarbons, C11-C14	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute		
route:					Oral Toxicity)		
Acute toxicity, by	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute		
dermal route:					Dermal Toxicity)		
Acute toxicity, by	LC50	>5000	mg/m3/	Rat	OECD 403 (Acute	Vapours	
inhalation:			8h		Inhalation		
					Toxicity)		
Skin corrosion/irritation:					OECD 404 (Acute	Analogous	
					Dermal	conclusion,	
					Irritation/Corrosio	Drying of	
					n)	the skin.,	
						Dermatitis	
						(skin	
						inflammation	
)	
Serious eye					OECD 405 (Acute	Analogous	
damage/irritation:					Eye	conclusion,	
					Irritation/Corrosio	Slightly	
					n)	irritant	



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Decominations1-in	1			Cuinceri	OECD 404 (81-1-	No (alriz
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
						Analogous
					· ·	conclusion
Germ cell mutagenicity:				Mouse	in vivo	Negative
Germ cell mutagenicity:				Salmonella	OECD 471	Negative,
				typhimuri	(Bacterial Reverse	Analogous
				um	Mutation Test)	conclusion
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In	Negative,
					Vitro Mammalian	Analogous
					Cell Gene	conclusion
					Mutation Test)	
Carcinogenicity:					OECD 453	Analogous
					(Combined	conclusion,
					Chronic	Negative
					Toxicity/Carcinoge	8
					nicity Studies)	
Reproductive toxicity:					OECD 414	Analogous
inceptodate to kierty:					(Prenatal	conclusion,
					Developmental	Negative
					Toxicity Study)	reguive
Specific target organ					Toxicity Study)	Analogous
toxicity - single						conclusion,
exposure (STOT-SE):						No
exposure (STOT-SE).						indications
						of such an
						effect.
Specific torget orgen	NOAEL	>=1000	malka	Rat	OECD 408	effect.
Specific target organ	NOAEL	>=1000	mg/kg	Kat		
toxicity - repeated			bw/d		(Repeated Dose	
exposure (STOT-RE):					90-Day Oral	
					Toxicity Study in	
					Rodents)	T 7
Aspiration hazard:						Yes
Symptoms:						drying of the
						skin.,
						headaches,
						fatigue,
						dizziness,
						nausea,
						diarrhoea,
						vomiting

Distillates (petroleum), hydrotreated light naphthenic							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute		
route:					Oral Toxicity)		



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Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation	Aerosol, Analogous
Skin corrosion/irritation:				Rabbit	Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)	conclusion Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:					OECD 421 (Reproduction/Dev elopmental Toxicity Screening Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	100			<u> </u>	No indications of such an effect.
Aspiration hazard:						Yes

Propane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses,
inhalation:			4h			Male,
						Analogous
						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye						Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	



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Reproductive toxicity	NOAEC	21,641	mg/l		OECD 422	
(Developmental		,	0		(Combined	
toxicity):					Repeated Dose	
toxicity).					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
Assignation bogond.					Screening Test)	No
Aspiration hazard:			_			
Symptoms:						breathing
						difficulties,
						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	7,214	mg/l	Rat	OECD 422	U
toxicity - repeated		,			(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
minututi					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Specific target organ	LOAEL	21,641	mg/l	Rat	OECD 422	
toxicity - repeated	LUAEL	21,041	Ing/1	Nai	(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

Isobutane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses, Male
inhalation:			4h			
Serious eye				Rabbit		Not irritant
damage/irritation:						
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	



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Aspiration hazard:						No
Symptoms:						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

Rust Remover MoS2 400 ml Art.: 9101356											
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes					
	nt										
Endocrine disrupting						Does not					
properties:						apply to					
						mixtures.					
Other information:						No other					
						relevant					
						information					
						available on					
						adverse					
						effects on					
						health.					

Distillates (petroleum), hydrotreated light naphthenic

Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Other information:	NOAEL	>2000	mg/kg	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	

SECTION 12: Ecological information

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

Rust Remover MoS2 400 ml									
Art.: 9101356									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		



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	I	 1	I		
12.1. Toxicity to					n.d.a.
fish:					
12.1. Toxicity to					n.d.a.
daphnia:					
12.1. Toxicity to					n.d.a.
algae:					
12.2. Persistence					n.d.a.
and degradability:					monul
12.3.					n.d.a.
Bioaccumulative					n.a.a.
potential:					
12.4 Mahilitasia					n.d.a.
12.4. Mobility in					n.u.a.
soil:					
12.5. Results of					n.d.a.
PBT and vPvB					
assessment					
12.6. Endocrine					Does not
disrupting					apply to
properties:					mixtures.
12.7. Other					No
adverse effects:					information
					available on
					other
					adverse
					effects on
					the
					environment.
Other information:					DOC-
					elimination
					degree(comp
					lexing
					organic
					substance)>=
					80%/28d:
					n.a.
Other information:	AOX	%		1	Does not
					contain any
					organically
					bound
					halogens
					which can
					contribute to
					the AOX
					value in
					waste water.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Water solubility:							Insoluble			
12.1. Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR				



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	11.50	0.01	1000	/1			
12.1. Toxicity to	LL50	96h	>1000	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOELR	21d	1,22	mg/l	Daphnia	QSAR	
daphnia:					magna		
12.1. Toxicity to	EL50	48h	>1000	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOELR	72h	1000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
					r	Inhibition	
						Test)	
12.2. Persistence		28d	69	%		OECD 301 F	Readily
and degradability:				, -		(Ready	biodegradabl
						Biodegradabil	e
						ity -	•
						Manometric	
						Respirometry	
						Test)	
12.3.	Log Pow	+	6-8			1000	High
Bioaccumulative	LogIow						111.511
potential:							
12.5. Results of							No PBT
PBT and vPvB							substance,
							No vPvB
assessment							
							substance

Distillates (petrole	um), hydrotre	ated ligh	nt naphth	enic			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	NOELR	14d	>1000	mg/l	Oncorhynchus	QSAR	
fish:					mykiss		
12.3.	BCF		<500				Low
Bioaccumulative							
potential:							
12.1. Toxicity to	LL50	96h	>100	mg/l	Pimephales	OECD 203	
fish:					promelas	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EL50	48h	>1000	mg/l	Daphnia	OECD 202	
daphnia:			0		magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	21d	10	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
						magna	
						Reproduction	
						Test)	



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10.1 Taniaitas ta	NOEC/NO	72h	>100	/1	Pseudokirchne	OECD 201	
12.1. Toxicity to	NOEC/NO	/2n	>100	mg/l			
algae:	EL				riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	10	%			Not readily
and degradability:							biodegradabl
							e
12.2. Persistence							Mechanical
and degradability:							precipitation
							possible.
12.2. Persistence		28d	31	%	activated	OECD 301 F	Not readily
and degradability:					sludge	(Ready	but inherent
					0	Biodegradabil	biodegradabl
						ity -	e.
						Manometric	
						Respirometry	
						Test)	
12.3.	Log Pow		6,0			1050)	A notable
Bioaccumulative	LogIOW		0,0				biological
							accumulation
potential:							
							potential
							has to be
							expected
							(LogPow >
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Water solubility:							Insoluble

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



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12.3. Bioaccumulative potential:					A notable 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 degradability:					Readily biodegradabl e
12.5. 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. (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.

Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging

SECTION 14: Transport information

General statements	
14.1. UN number or ID 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:	-





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Classification code:	5F	
LQ:	1 L	
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):	2.1	
14.4. Packing group:	-	
14.5. Environmental hazards:	Not applicable	
14.6. Special precautions for user		
Persons employed in transporting dangerous go	ods must be trained.	
All persons involved in transporting must obser	ve safety regulations.	
Precautions must be taken to prevent damage.		
14.7. Maritime transport in bulk according to	o IMO instruments	
Freighted as packaged goods rather than in bulk	, therefore not applicable.	
Minimum amount regulations have not been tak	en 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:

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.):

Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article $3(10)$ for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier 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:



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Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity (tonnes) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) for the application of - Upper-tier requirements
18	Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas	19	50	200

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: 1-16 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). H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard Aerosol — Aerosols

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

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>78 %



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Guidelines for the preparation of safety data sheets as amended (ECHA).
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
Safety data sheets for the constituent substances.
ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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)

BCF Bioconcentration factor

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

DOC Dissolved organic carbon

dw dry weight

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

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

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)



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ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax number Fax. gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil Kow octanol-water partition coefficient 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 IUPACInternational 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) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LO Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic PE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No REACH 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. **REACH-IT List-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 RID concerning the International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds



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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.