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Conforms to Regulation	(EC) No. 1907/2006	(REACH), Annex II, as a	amended by Commission	Regulation (EU)
2020/878				

SAFETY DATA SHEET

ROCKGRIP LC ETCH PRIMER RED OXIDE

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

1.1 Product identifier	
GHS product identifier	: 🔽 ROCKGRIP LC ETCH PRIMER RED OXIDE
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Product use	: 🔽 Use in accordance with directions on the can.

1.3. Details of the supplier of the safety data sheet

	Akzonobel South Africa (PTY) LTD NO. 1 PAINTS PLACE DICKENS ROAD UMBOGINTWINI 4126SOUTH AFRICA
e-mail address of person responsible for this SDS	: ZA.Helpline@akzonobel.com
1.4 Emergency telephone n Supplier	umber
Telephone number	: Customer Care 0860 330 111 (Available week days from 08:00 to 16:30). Emergency details: after hours: refer to website for MSDS.
Version Date of previous issue	: 10.01 • 15-12-2022

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product c	definition
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: Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 2: Hazards identification

:

Hazard pictograms



Signal word	:	Danger
Hazard statements		 H225 - Highly flammable liquid and vapor. H315 - Causes skin irritation. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements		
General	:	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling.
Response		 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.
Hazardous ingredients	:	butan-1-ol propan-1-ol 2-methylpropan-1-ol
Supplemental label elements	:	Contains Fatty acids, tall-oil, compds. with oleylamine and formaldehyde. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Yes, applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No.	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
1907/2006, Annex XIII Other hazards which do not result in classification	:	None known.
Date of issue/Date of revision		: 7-6-2023 Date of previous issue : 15-12-2022 Version : 10.01 2/2

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øutan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥15 - ≤24	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 500 mg/kg	[1]
propan-1-ol	EC: 200-746-9 CAS: 71-23-8 Index: 603-003-00-0	≥10 - ≤15	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336	-	[1]
pentan-2-ol	EC: 227-907-6 CAS: 6032-29-7 Index: 603-006-00-7	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H332 STOT SE 3, H335 EUH066	ATE [Inhalation (vapours)] = 11 mg/ I	[1]
butan-2-ol	EC: 201-158-5 CAS: 78-92-2 Index: 603-127-00-5	≤10	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336	-	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
3-Methylbutan-2-ol	EC: 209-950-2 CAS: 598-75-4 Index: 603-006-00-7	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H332 STOT SE 3, H335 EUH066	ATE [Inhalation (vapours)] = 11 mg/ I	[1]
Phosphoric acid	REACH #: 01-2119485924-24 EC: 231-633-2 CAS: 7664-38-2 Index: 015-011-00-6	<1	Skin Corr. 1B, H314 Eye Dam. 1, H318	Skin Corr. 1B, H314: $C \ge 25\%$ Skin Irrit. 2, H315: $10\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$ Eye Irrit. 2, H319: $10\% \le C < 25\%$	[1] [2]
ethyl acetate	EC: 205-500-4 CAS: 141-78-6	≤0.3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Reaction Mass of Ethylbenzene and M- Xylene and P-Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≤0.3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6670	[1] [2]
Date of issue/Date of revision	: 7-6-2023 Date	e of previous is	sue : 15-12-2022	Version : 10.0	01 3/27

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 3: Composition/information on ingredients

SECTION 3: Compo	sition/informati	on on in	gredients		
			Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ppm	
phenol	REACH #: 01-2119471329-32 EC: 203-632-7 CAS: 108-95-2 Index: 604-001-00-2	≤0.19	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373 (kidneys, liver, nervous system, skin)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 630 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l Skin Corr. 1B, H314: C ≥ 3% Skin Irrit. 2, H315: $1\% \le C < 3\%$ Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: $1\% \le C < 3\%$ STOT RE 2, H373: C ≥ 10%	[1] [2]
Fatty acids, tall-oil, compds. with oleylamine	REACH #: 01-2119474148-28 EC: 288-315-1 CAS: 85711-55-3	<0.1	Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 (oral)	-	[1]
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: 5% ≤ C < 25% Eye Dam. 1, H318: C ≥ 25% Eye Irrit. 2, H319: 5% ≤ C < 25% Skin Sens. 1, H317: C ≥ 0.2% STOT SE 3, H335: C ≥ 5%	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

Date of issue/Date of revision	: 7-6-2023	Date of previous issue	:15-12-2022	Version : 10.01 4/27
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ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or doctor. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or doctor. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Get medical attention immediately. Call a poison center or doctor. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or doctor. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, tall-oil, compds. with oleylamine, formaldehyde. May produce an allergic reaction.

Over-exposure signs/symptoms

5/27

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 4: First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering
Inhalation	redness Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for

Date of issue/Date of revision

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8.2 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Date of issue/Date of	revision :	7-6-2023	Date of previous issue	: 15-12-2022	Version	:10.01	7/27
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SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

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indicative
rough skin. Notes: list it values
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Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace

limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	55.357 mg/	General	Systemic
		Inhalation	m³	population	,
	DNEL	Long term	155 mg/m ³	General	Local
		Inhalation	5	population	
	DNEL	Long term	310 mg/m ³	Workers	Local
		Inhalation	J		
propan-1-ol	DNEL	Long term Oral	61 mg/kg	General	Systemic
F F			bw/day	population	-)
	DNEL	Long term	80 mg/m ³	General	Systemic
		Inhalation	<u>-</u>	population	-)
	DNEL	Long term Dermal	81 mg/kg	General	Systemic
	DITEE	Long toni Donna	bw/day	population	eyetenne
	DNEL	Long term Dermal	136 mg/kg	Workers	Systemic
	DITEE	Long toni Donna	bw/day		eyetenne
	DNEL	Long term	268 mg/m ³	Workers	Systemic
	DITEE	Inhalation	200 mg/m		eyetenne
	DNEL	Short term	1036 mg/	General	Systemic
	DITEE	Inhalation	m ³	population	eyetenne
	DNEL	Short term	1723 mg/	Workers	Systemic
	DITEE	Inhalation	m ³		eyetenne
butan-2-ol	DNEL	Long term Oral	15 mg/kg	General	Systemic
			bw/day	population	-) - ! - ! - ! - ! - ! - ! - ! - ! - !
	DNEL	Long term Dermal	203 mg/kg	General	Systemic
		20119 10111 2 011101	bw/day	population	-) - ! - ! - ! - ! - ! - ! - ! - ! - !
	DNEL	Long term	213 mg/m ³	General	Systemic
		Inhalation		population	-) - ! - ! - ! - ! - ! - ! - ! - ! - !
	DNEL	Long term Dermal	405 mg/kg	Workers	Systemic
			bw/day		-) - ! - ! - ! - ! - ! - ! - ! - ! - !
	DNEL	Long term	600 mg/m ³	Workers	Systemic
		Inhalation			s yeter no
2-methylpropan-1-ol	DNEL	Long term	55 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	310 mg/m ³	Workers	Local
		Inhalation			
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg	General	Systemic
	1	Date of previous issue	: 15-12-2		ersion : 10.01 9

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 8: Exposure controls/personal protection

	DNEL	Long term	bw/day 43.9 mg/m³	population General	Systemic
	DINEL		43.9 mg/m°		Systemic
		Inhalation	79 mg/kg	population	Sustamia
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 183 mg/kg	population Workers	Systemic
	DNEL	Long term	bw/day 369 mg/m³	Workers	Systemic
	DNEL	Inhalation Short term	553.5 mg/	Workers	Local
	DNEL	Inhalation Short term Inhalation	m ³ 553.5 mg/ m ³	Workers	Systemic
Phosphoric acid	DNEL	Long term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.36 mg/m ³		Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m³	Workers	Local
	DNEL	Long term Inhalation	4.57 mg/m ³	population	Systemic
-46-4 4-4-	DNEL	Long term Inhalation	10.7 mg/m ³		Systemic
ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL DNEL	Long term Dermal	37 mg/kg bw/day 63 mg/kg	General population Workers	Systemic Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day 367 mg/m ³	General	Local
	DINEL	Inhalation	367 mg/m ³	population	LUCAI
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m ³	General population	Local
	DNEL	Short term Inhalation	734 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Systemic
	DNEL DNEL	Short term Inhalation Short term	1468 mg/ m³ 1468 mg/	Workers Workers	Local Systemic
Reaction Mass of Ethylbenzene and	DNEL	Inhalation Long term Oral	m ³ 1.6 mg/kg	General	Systemic
M-Xylene and P-Xylene	DNEL	Long term	bw/day 14.8 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	77 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	108 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m ³	Workers	Local
	DNEL	Short term	289 mg/m ³	Workers	Systemic
	2023	Date of previous issue	: 15-12-2		Version : 10.01

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 8: Exposure controls/personal protection

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uh an al		Inhalation	0.450	O a m a mal	Quatantia
phenol	DNEL	Long term	0.452 mg/	General	Systemic
	DUE	Inhalation	m ³	population	
	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	0.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	1.23 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	8 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	16 mg/m³	Workers	Local
		Inhalation			
Fatty acids, tall-oil, compds. with	DNEL	Long term Oral	0.012 mg/	General	Systemic
oleylamine			kg bw/day	population	
	DNEL	Long term Dermal	0.012 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Long term Dermal	0.024 mg/	Workers	Systemic
			kg bw/day		-
Formaldehyde	DNEL	Long term Dermal	0.012 mg/	General	Local
			cm ²	population	
	DNEL	Long term Dermal	0.037 mg/	Workers	Local
			cm ²		
	DNEL	Long term	0.1 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	0.375 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	0.75 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	3.2 mg/m ³	General	Systemic
		Inhalation	Ŭ	population	-
	DNEL	Long term Oral	4.1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	9 mg/m ³	Workers	Systemic
		Inhalation	J.		
	DNEL	Long term Dermal	102 mg/kg	General	Systemic
	···	<u> </u>	bw/day	population	,
	DNEL	Long term Dermal	240 mg/kg	Workers	Systemic
			bw/day		- ,
			Stirday		

PNECs

No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	ires
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

🖊 ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 8: Exposure controls/personal protection

Eye/face protection	assessr gases c unless t goggles	eyewear complying with an approved standard should be used when a risk ment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, the following protection should be worn, the assessment indicates a higher degree of protection: chemical splash and/or face shield. If inhalation hazards exist, a full-face respirator may be d instead.
Skin protection Hand protection	be worr this is n check d should l differen	al-resistant, impervious gloves complying with an approved standard should a at all times when handling chemical products if a risk assessment indicates ecessary. Considering the parameters specified by the glove manufacturer, luring use that the gloves are still retaining their protective properties. It be noted that the time to breakthrough for any glove material may be t for different glove manufacturers. In the case of mixtures, consisting of substances, the protection time of the gloves cannot be accurately ed.
	protection recomm When co (breakther Recomu	prolonged or frequently repeated contact may occur, a glove with a on class of 6 (breakthrough time >480 minutes according to EN374) is nended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. only brief contact is expected, a glove with protection class of 2 or higher nrough time >30 minutes according to EN374) is recommended. mended gloves: Nitrile, thickness \geq 0.12 mm. should be replaced regularly and if there is any sign of damage to the glove I.
	•	formance or effectiveness of the glove may be reduced by physical/ al damage and poor maintenance.
	product	er must check that the final choice of type of glove selected for handling this is the most appropriate and takes into account the particular conditions of included in the user's risk assessment.
Body protection	being p before h wear ar discharg Europea	al protective equipment for the body should be selected based on the task erformed and the risks involved and should be approved by a specialist handling this product. When there is a risk of ignition from static electricity, hti-static protective clothing. For the greatest protection from static ges, clothing should include anti-static overalls, boots and gloves. Refer to an Standard EN 1149 for further information on material and design ments and test methods.
Other skin protection	selected	riate footwear and any additional skin protection measures should be d based on the task being performed and the risks involved and should be ed by a specialist before handling this product.
Respiratory protection	appropr	on the hazard and potential for exposure, select a respirator that meets the riate standard or certification. Respirators must be used according to a ory protection program to ensure proper fitting, training, and other important s of use.
Environmental exposure controls	ensure In some	ons from ventilation or work process equipment should be checked to they comply with the requirements of environmental protection legislation. a cases, fume scrubbers, filters or engineering modifications to the process ent will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Date of issue/Date of revision	: 7-6-2023	Date of previous issue	: 15-12-2022	Version	:10.01	12/27
Odor	: Not ava	ailable.				
Color	: Various	s: See label.				
Physical state	: Liquid.					
<u>Appearance</u>						

ROCKGRIP LC ETCH PRIMER RED OXIDE

Odor threshold : Not ava	ilable.		
Ielting point/freezing point : Not ava	ilable.		
Boiling point, initial boiling : 78°C (1 point, and boiling range	72.4°F)		
Flammability : Not ava	ilable.		
.ower and upper explosion : Not ava mit	ilable.		
lash point : Closed	cup: 12°C (53.6°I	-) [Pensky-Marte	ns]
Auto-ignition temperature :			
Ingredient name	°C	°F	Method
▶ methoxy-2-propanol	270	518	
Solvent naphtha (petroleum), light arom.	280 to 470	536 to 878	
Fatty acids, tall-oil, compds. with oleylamine	342	647.6	EU A.15
pentan-2-ol	342.85	649.1	
butan-1-ol	355	671	EU A.15
3-pentanol	360	680	
butan-2-ol	377	710.6	
propan-1-ol	400	752	DIN 51794
2-methylpropan-1-ol	415	779	
ethyl acetate	426.67	800	
Formaldehyde	430	806	
Reaction Mass of Ethylbenzene and M-Xylene and P- Xylene	432	809.6	
ETHYL ALCOHOL	455	851	DIN 51794
Propan-2-ol	456	852.8	
phenol	715	1319	

cold water		Not soluble [OESO (TG 105)]
Media		Result
Solubility(ies)	:	
Viscosity	: 1	Kinematic: 332 mm²/s [DIN EN ISO 3219]
pri	• •	

Partition coefficient: n-octanol/ : Not applicable. water

:

Vapor pressure

	V	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
ethyl acetate	81.59	10.9						
ETHYL ALCOHOL	42.95	5.7						
Propan-2-ol	33	4.4						
Water	23.8	3.2						
propan-1-ol	21.15	2.8						
butan-2-ol	12.75	1.7						
te of issue/Date of revision	: 7-6-202	23 Date o	f previous issue	:15-12-2022		Version : 10.01	13/27	

ROCKGRIP LC ETCH PRIMER RED OXIDE					
ECTION 9: Physica	I and ch	nemical	properties		
2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2		
1-methoxy-2-propanol	8.5	1.1			
butan-1-ol	<7.5	<1	DIN EN 13016-2		
Reaction Mass of Ethylbenzene and M-Xylene and P-Xylene	6.7	0.89			
3-Methylbutan-2-ol	1	0.13			
Formaldehyde	1	0.13			
phenol	0.15	0.02			
Phosphoric acid	0.03	0.004			

Relative density

: 0.966 : 0.966 g/cm³ [DIN EN ISO 2811-1]

- Density Vapor density <u>Particle characteristics</u> Median particle size Percentage of particles with aerodynamic diameter ≤ 10 µm
- : Not available.
- Not applicable.Ø
- ı :

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Intraperitoneal	Mouse	254 mg/kg	-
	LD50 Intraperitoneal	Rat	200 mg/kg	-
	LD50 Intravenous	Mouse	377 mg/kg	-
	LD50 Intravenous	Rat	310 mg/kg	-
	LD50 Oral	Bird - wild bird species	2500 mg/kg	-
	LD50 Oral	Dog	1782 mg/kg	-

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 11: Toxicological information

SECTION 11: TOXICO	logical information			
	LD50 Oral	Hamster	1.2 g/kg	-
	LD50 Oral	Mouse	100 mg/kg	-
	LD50 Oral	Rabbit	3484 mg/kg	-
	LD50 Oral	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	0.79 g/kg	_
	LD50 Oral	Rat	4.36 g/kg	-
	LD50 Oral	Rat	790 mg/kg	-
	LD50 Subcutaneous	Mouse	3200 mg/kg	_
	LDLo Dermal	Rabbit	5 mL/kg	_
	LDLo Intravenous	Cat	243 mg/kg	_
	LDLo Oral	Dog	1760 mg/kg	
	LDLo Oral	Human	428 mg/kg	
	LDLo Route of exposure	Rabbit	3500 mg/kg	
	unreported	T CODDIC	0000 mg/kg	
	LDLo Subcutaneous	Dog	2 g/kg	
	TDLo Eyes	Human	72.5 mg/m ³	-
	TDLo Intraperitoneal	Rat	400 mg/kg	
	TDLo Oral	Rabbit	0.8 g/kg	
propan-1-ol	LD50 Dermal	Rabbit	5040 mg/kg	-
	LD50 Intraperitoneal	Guinea pig	1208 mg/kg	
	LD50 Intraperitoneal	Hamster	2338 mg/kg	
	LD50 Intraperitoneal	Mouse	3125 mg/kg	
	LD50 Intraperitoneal	Rabbit	515 mg/kg	-
	LD50 Intraperitoneal	Rabbit	2164 mg/kg	-
	LD50 Intravenous	Mouse		-
	LD50 Intravenous	Rabbit	697 mg/kg	-
			483 mg/kg	-
	LD50 Intravenous	Rat	590 mg/kg	-
	LD50 Oral LD50 Oral	Mouse Rabbit	6800 mg/kg	-
			2825 mg/kg	-
	LD50 Oral	Rat	1870 mg/kg	-
	LD50 Oral	Rat	2200 mg/kg	-
	LD50 Subcutaneous	Mouse	4700 mg/kg	-
	LDLo Intravenous	Cat	4008 mg/kg	-
	LDLo Oral	Dog	3 g/kg	-
	LDLo Oral	Mouse Rabbit	140 mg/kg	-
	LDLo Oral		3500 mg/kg	-
	LDLo Oral	Woman -	5700 mg/kg	-
		Female		
	LDLo Route of exposure	Rabbit	4500 mg/kg	-
		Den	4	
	LDLo Subcutaneous	Dog	4 g/kg	-
	LDLo Subcutaneous	Mammal -	5 g/kg	-
		species		
		unspecified		
buton 2 ol	LDLo Subcutaneous	Rabbit	3 g/kg	- 1 houro
butan-2-ol	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	48500 mg/m ³	4 hours
	LD50 Intraperitoneal	Guinea pig	1067 mg/kg	-
	LD50 Intraperitoneal	Hamster	1218 mg/kg	-
	LD50 Intraperitoneal	Mouse	771 mg/kg	-
	LD50 Intraperitoneal	Rabbit	277 mg/kg	-
	LD50 Intraperitoneal	Rat	1193 mg/kg	-
	LD50 Intravenous	Mouse	764 mg/kg	-
	LD50 Intravenous	Rat	138 mg/kg	-
	LD50 Oral	Rabbit	4893 mg/kg	-
	LD50 Oral	Rabbit	4890 mg/kg	-
	LD50 Oral	Rat	2193 mg/kg	-
	LD50 Oral	Rat	2054 mg/kg	-
	LDLo Oral	Dog	2400 mg/kg	-
	LDLo Oral	Rabbit	3000 mg/kg	-
			1	
Date of issue/Date of revision	: 7-6-2023 Date of previous	issue :15-12	-2022	Version : 10.01 15/27

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 11: Toxicological information

1	LDLo Parenteral	Frog	15 g/kg	
	LD50 Dermal	Rabbit		-
			3400 mg/kg	-
	LD50 Intraperitoneal	Guinea pig	1201 mg/kg	-
	LD50 Intraperitoneal	Hamster	1401 mg/kg	-
	LD50 Intraperitoneal	Mouse	544 mg/kg	-
	LD50 Intraperitoneal	Mouse	544 mg/kg	-
	LD50 Intraperitoneal	Rabbit	323 mg/kg	-
	LD50 Intraperitoneal	Rat	720 mg/kg	-
	LD50 Intravenous	Mouse	417 mg/kg	-
	LD50 Intravenous	Rat	340 mg/kg	-
	LD50 Oral	Mouse	3500 mg/kg	-
	LD50 Oral	Rabbit	74.1 mg/kg	-
1	LD50 Oral	Rat	2460 mg/kg	-
1	LDLo Intravenous	Cat	180 mg/kg	-
1	LDLo Oral	Human	428 mg/kg	-
1	LDLo Oral	Rabbit	3750 mg/kg	-
1	LDLo Oral	Rabbit	3750 mg/kg	-
-	TDLo Eyes	Human	72.5 mg/m ³	-
nyl acetate	LD50 Intraperitoneal	Mouse	709 mg/kg	-
	LD50 Oral	Guinea pig	5.5 g/kg	-
1	LD50 Oral	Guinea pig	5500 mg/kg	-
1	LD50 Oral	Mouse	4.1 g/kg	-
1	LD50 Oral	Mouse	4100 mg/kg	-
	LD50 Oral	Rabbit	4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
	LD50 Subcutaneous	Cat	3 g/kg	-
	LD50 Subcutaneous	Guinea pig	3 g/kg	-
	LDLo Subcutaneous	Rat	5 g/kg	-
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
hylbenzene and M-Xylene			oor o ppin	1 Houro
d P-Xylene				
	LD50 Oral	Rat	4300 mg/kg	_
	LD50 Oral	Rat	4300 mg/kg	
	LC50 Inhalation Vapor	Mouse	177 mg/m ³	- 4 hours
	LC50 Inhalation Vapor	Rat	316 mg/m ³	4 hours
	LD50 Dermal	Rabbit	630 mg/kg	
	LD50 Dermal	Rat	669 mg/kg	-
	LD50 Dermal	Rat	1500 mg/kg	-
	LD50 Intraperitoneal	Rat	127 mg/kg	-
	LD50 Intrapentoneal	Rat		-
	LD50 Oral	Rat	317 mg/kg	-
	LD50 Orai LD50 Subcutaneous	Rat	512 mg/kg 300 mg/kg	-
		Rat	3UU ma/ka	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
89307	2196.7	346500.3	N/A	146.7	N/A
butan-1-ol	500	N/A	N/A	N/A	N/A
pentan-2-ol	N/A	N/A	N/A	11	N/A
butan-2-ol	N/A	N/A	N/A	48.5	N/A
3-Methylbutan-2-ol	N/A	N/A	N/A	11	N/A
Reaction Mass of Ethylbenzene and M-Xylene and P-Xylene	4300	1100	6670	N/A	N/A
phenol	100	630	N/A	N/A	1.5
Formaldehyde	100	300	N/A	3	N/A

Irritation/Corrosion

Date of issue/Date of revision

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observatio
butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	1.62 mg	-
	Éyes - Severe irritant	Rabbit	-	24 hours 2	-
	Lyce covere initiality	1 tabbit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		Tabbit	-		-
nrenen 1 el	Even Mederate invitant	Debbit		mg	
propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Mild irritant	Human	-	47 hours 100	-
				%	
	Skin - Mild irritant	Human	-	24 hours 100	-
				%	
	Skin - Mild irritant	Rabbit	-	500 mg	-
pentan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		Tabbit	-		-
hutan 0 al		Debbit		mg	
butan-2-ol	Eyes - Severe irritant	Rabbit	-	0.1 MI	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Reaction Mass of	Eyes - Mild irritant	Rabbit	-	87 mg	-
Ethylbenzene and M-Xylene	-				
and P-Xylene					
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
		Tabbit	_		-
	Skin - Mild irritant	Rat		mg	
			-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
phenol	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				5 mg	
	Eyes - Severe irritant	Rabbit	-	5 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Pig	-	0.5 minutes	-
		1.19		400 uL	
	Skin - Severe irritant	Rabbit		535 mg	
Formoldobydo			-		-
Formaldehyde	Eyes - Mild irritant	Human	-	6 minutes 1	-
				ppm	
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Mild irritant	Human	-	72 hours 150	-
				ug l	
	Skin - Mild irritant	Rabbit	-	540 mg	-
	Skin - Moderate irritant	Rabbit	_	24 hours 50	-
	Skin Sovere irritent	Human		mg	
	Skin - Severe irritant	Human	-	0.01 %	-
	Skin - Severe irritant	Rabbit	-	0.8 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
Conclusion/Summary	: Not available.				
Conclusion/Summary	. NOL AVAIIADIE.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
-					
<u>Autagenicity</u>					
Conclusion/Summary	: Not available.				
constantion, cummary					

Date of issue/Date of revision

:7-6-2023 **L**

🔽 ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 11: Toxicological information

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Reaction Mass of Ethylbenzene and M-Xylene and P-Xylene	Positive - Inhalation - TC	Mouse	<75 ppm	103 weeks; 5 days per week
Conclusion/Summary	: Not available.			· · ·
Reproductive toxicity				
Conclusion/Summary	: Not available.			
<u>Teratogenicity</u>				
Conclusion/Summary	: Not available.			
Specific target organ toxicit	t <u>y (single exposure)</u>			
Product/ing	redient name	Category	Route of exposure	Target organs
butan-1-ol		Category 3	-	Respiratory tract

		exposure	
butan-1-ol	Category 3	-	Respiratory tract
	Category 3		Narcotic effects
propan-1-ol	Category 3	-	Narcotic effects
pentan-2-ol	Category 3	-	Respiratory tract irritation
butan-2-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
3-Methylbutan-2-ol	Category 3	-	Respiratory tract irritation
ethyl acetate	Category 3	-	Narcotic effects
Reaction Mass of Ethylbenzene and M-Xylene and P- Xylene	Category 3	-	Respiratory tract irritation
Formaldehyde	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction Mass of Ethylbenzene and M-Xylene and P- Xylene	Category 2	-	-
phenol	Category 2	-	kidneys, liver, nervous system, skin
Fatty acids, tall-oil, compds. with oleylamine	Category 2	oral	-

Aspiration hazard

Product/ingredient name	Result
Reaction Mass of Ethylbenzene and M-Xylene and P-Xylene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available.

routes of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

ROCKGRIP LC ETCH PRIMER RED OXIDE SECTION 11: Toxicological information Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Skin contact : Causes skin irritation. Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
Not available.
11.2.2 Other information
Not available.

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name	Result	Species	Exposure
butan-1-ol	Acute EC50 1983 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2300000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Acute LC50 1910000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 1940000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
propan-1-ol	Acute EC50 4480000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute EC50 3644 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 4620000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 2500000 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 1000000 µg/l Fresh water	Crustaceans - Gammarus pulex	
	Acute LC50 5820000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 3100000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 2950000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 3800000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Acute LC50 4630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4480000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
butan-2-ol	Acute EC50 4227 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3670000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-methylpropan-1-ol	Acute EC50 1200000 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		reticulata - Larvae	io nouro
	Acute EC50 1439 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 1300000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Larvae	40 110010
	Acute EC50 1100000 µg/l Fresh water	Daphnia - Daphnia pulex -	48 hours
		Larvae	40 110010
	Acute EC50 1460 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1190000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	40 Hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	40 Hours
	Acute LC50 1460000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 1510000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 1430000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 20 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Phosphoric acid	Acute EC50 105 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 60 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 2500000 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 750000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 175000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
			48 hours
	Acute LC50 560000 µg/l Fresh water Acute LC50 230000 µg/l Fresh water	Daphnia - Daphnia magna Daphnia - Daphnia pulex	48 hours
	Acute LOSO 200000 µg/I Flesh water		
te of issue/Date of revision	: 7-6-2023 Date of previous issue	:15-12-2022 Version	:10.01 20

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 12: Ecological information

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	Acute LC50 295000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Acute LC50 484000 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 230000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 2.4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2.4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas -	32 days
Departies Mana of	A suite LOEO O E sume Marine suiter	Embryo	10
Reaction Mass of	Acute LC50 8.5 ppm Marine water	Crustaceans - Palaemonetes	48 hours
Ethylbenzene and M-Xylene		pugio - Adult	
and P-Xylene			
	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 15700 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ohenol	Acute EC50 36 mg/l Marine water	Algae - Hormosira banksii -	72 hours
	3	Gamete	
	Acute EC50 10 ppm Marine water	Algae - Macrocystis pyrifera -	4 days
		Young	
	Acute EC50 94 mg/l Fresh water	Aquatic plants - Lemna	96 hours
		aequinoctialis	oo nouro
	Acute EC50 4200 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
			48 hours
	Acute EC50 6600 µg/l Fresh water	Daphnia - Daphnia magna -	40 110015
		Newly or recently hatched	40.1
	Acute LC50 800 µg/l Marine water	Crustaceans - Archaeomysis	48 hours
		kokuboi - Juvenile (Fledgling,	
		Hatchling, Weanling)	
	Acute LC50 1555 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Acute LC50 1.75 µg/l Fresh water	Fish - Cyprinus carpio - Larvae	96 hours
	Acute LC50 2480 µg/l Fresh water	Fish - Notopterus notopterus	96 hours
	Acute LC50 5020 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
	10	Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 16 µg/l Marine water	Algae - Hormosira banksii -	72 hours
		Gamete	72 nours
	Chronic NOEC 1.5 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 118 μ g/l Fresh water	Fish - Oncorhynchus mykiss	90 days
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Acute EC50 0.442 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 3.26 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Embryo	40.
	Acute LC50 11.41 mg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia	
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.005 mg/l Marine	Algae - Isochrysis galbana -	96 hours
	water	Exponential growth phase	
	Chronic NOEC 3000 ppm Fresh water	Crustaceans - Astacus astacus -	21 days
		Egg	
	Chronic NOEC 1.56 mg/l Fresh water	Fish - Oreochromis niloticus -	12 weeks
		Fingerling	
			<u> </u>
Conclusion/Summary	: Not available.		
te of issue/Date of revision	: 7-6-2023 Date of previous issue	: 15-12-2022 Version	:10.01 21
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ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Reaction Mass of Ethylbenzene and M-Xylene and P-Xylene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butan-1-ol	1	-	low
propan-1-ol	0.2	-	low
pentan-2-ol	1.19	-	low
butan-2-ol	0.61	-	low
2-methylpropan-1-ol	1	-	low
1-methoxy-2-propanol	<1	-	low
3-Methylbutan-2-ol	1.28	-	low
ethyl acetate	0.68	30	low
Reaction Mass of	3.12	8.1 to 25.9	low
Ethylbenzene and M-Xylene			
and P-Xylene			
phenol	1.47	647	high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>						
Methods of disposal	Disposal of with the req any regiona products via	tion of waste should be this product, solutions a uirements of environme I local authority requiren a a licensed waste dispo the sewer unless fully o tion.	nd any by-products sh ntal protection and wa nents. Dispose of sur sal contractor. Waste	nould at all time ste disposal le plus and non-r s should not be	es comp egislation ecyclab e dispos	n and le ed of
Hazardous waste	: The classifi	cation of the product ma	y meet the criteria for	a hazardous w	vaste.	
Date of issue/Date of revision	: 7-6-2023	Date of previous issue	: 15-12-2022	Version	:10.01	22/27

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 13: Disposal considerations

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN numberUN126314.2 UN proper shipping namePAINT	UN1263 PAINT
	PAINT
14.3 Transport3hazard class(es)	3
14.4 Packing III group	II
14.5No.EnvironmentalNo.hazardsNo.	No.

14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
IMDG	:	Emergency schedules F-E, S-E Viscous liquid exception This class 3 material can be shipped as Packing Group III in packagings up to 450 L.
ADR/RID	:	In packagings up to 450 L. <u>Tunnel code</u> (E)

:10.01

23/27

Date of issue/Date of revision	: 7-6-2023	Date of previous issue	:15-12-2022	Version :
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ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 14: Transport information

14.7 Transport in bulk : Not available. according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

Other EU regulations

VOC	:	The provisions of Directive 2004/42/EC on VOC apply to this product label and/or technical data sheet for further information.
VOC for Ready-for-Use Mixture	:	Not available.
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed

Industrial emissions : Not listed (integrated pollution

prevention and control) -Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c	

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

this product. Refer to the

🔽 ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 15: Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
	vi vb – very i ersistent and very bloaccultulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

Date of issue/Date of revision	: 7-6-2023		15-12-2022	Version	: 10.01	25/27
H350		May cause cancer.				
H341		Suspected of causing get				
H336		May cause drowsiness of				
H335		May cause respiratory irri	itation			
H332		Harmful if inhaled.				
H331		Toxic if inhaled.				
H319		Causes serious eye irrita				
H318		Causes serious eye dam				
H317		May cause an allergic ski	in reaction.			
H315		Causes skin irritation.	, 0			
H314		Causes severe skin burn	s and eye damage.			
H312		Harmful in contact with sl	kin.			
H311		Toxic in contact with skin				
H304		May be fatal if swallowed	and enters airways.			
H302		Harmful if swallowed.				
H301		Toxic if swallowed.				
H226		Flammable liquid and var	oor.			
H225		Highly flammable liquid a	nd vapor.			

ROCKGRIP LC ETCH PRIMER RED OXIDE

SECTION 16: Other information	
H373	May cause damage to organs through prolonged or repeated
	exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Date of printing	: 15-6-2023	
		Category 3
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		EXPOSURE) - Category 2
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
Skin Sens. 1A		SKIN SENSITIZATION - Category 1A
Skin Sens. 1		SKIN CONTROLOGION/INCLIATION - Category 2 SKIN SENSITIZATION - Category 1
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 15
Skin Corr. 1B		SKIN CORROSION/IRRITATION - Category 1B
Muta. 2		GERM CELL MUTAGENICITY - Category 2
Flam. Liq. 2 Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Eye Dam. 1		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Carc. 1B		CARCINOGENICITY - Category 1B
Asp. Tox. 1		ASPIRATION HAZARD - Category 1
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3
Acute Tox. 4		ACUTE TOXICITY - Category 4
Acute Tox. 3		ACUTE TOXICITY - Category 3

. 7-0-2023
: 15-12-2022
: 10.01

Notice to reader

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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