

**RUSTEN FINISH**

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Code: **455159**  
Product name: **RUSTEN FINISH**

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

Identified Uses	Industrial	Professional	Consumer
Paint / Coating	-	PC: 9a.	PC: 9a.

**Uses Advised Against**

All uses other than painting in construction.

**1.3. Details of the supplier of the safety data sheet**

Name: **CROMOLOGY ITALIA S.P.A.**  
Full address: **Via IV Novembre, 4**  
District and Country: **55016 Porcari (LU)  
Italia**  
Tel. **199.11.99.55**  
Fax **199.11.99.77**

e-mail address of the competent person  
responsible for the Safety Data Sheet: **info-sds@cromology.it**

**1.4. Emergency telephone number**

For urgent inquiries refer to: **Contact your local poison control centre.**  
**For more information: Cromology Italia SpA Phone +39 05832424  
from Monday to Friday 9:30-12:30 14:00-17:30**

## SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

**Hazard classification and indication:**

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

**2.2. Label elements**

**RUSTEN FINISH**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:                 **Danger**

Hazard statements:

**H318**                                 Causes serious eye damage.

**H315**                                 Causes skin irritation.

**H317**                                 May cause an allergic skin reaction.

Precautionary  
statements:

**P101**                                 If medical advice is needed, have product container or label at hand.

**P102**                                 Keep out of reach of children.

**P280**                                 Wear protective gloves/ protective clothing / eye protection / face protection.

**P302+P352**                         IF ON SKIN: Wash with plenty of water / . . .

**P305+P351+P338**                 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P501**                                 Dispose of contents/container according to local regulation.

**Contains:**                         Hematite  
  2-METHYL-2H-ISOTHIAZOL-3-ONE (MIT)  
  Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3: 1) (C(M)IT/MIT)  
  1,2-BENZOISOTIAZOL-3(2H)-ONE (BIT)

VOC (Directive 2004/42/EC) :

Two-pack reactive performance coatings for specific end use such as floors.

VOC given in g/litre of product in a ready-to-use condition :                         140,00

Limit value:   140,00

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**RUSTEN FINISH**

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

**SECTION 3. Composition/information on ingredients**
**3.2. Mixtures**

Contains:

Identification	Conc. %	Classification (EC) 1272/2008 (CLP)
<b>Hematite</b>		
INDEX -	23,2	Eye Dam. 1 H318, Skin Irrit. 2 H315
EC 215-275-4		
CAS 1317-60-8		
<b>ZINC OXIDE</b>		
INDEX 030-013-00-7	0,144	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 215-222-5		
CAS 1314-13-2		
REACH Reg. 01-2119463881-32-XXXX		
<b>1,2-BENZOISOTIAZOL-3(2H)-ONE (BIT)</b>		
INDEX 613-088-00-6	0,023	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 220-120-9		Skin Sens. 1A H317: $\geq 0,05\%$
CAS 2634-33-5		STA Oral: 500 mg/kg
REACH Reg. 01-2120761540-60		
<b>PHOSPHORIC ACID</b>		
INDEX 015-011-00-6	0,018	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
EC 231-633-2		Met. Corr. 1 H290: $\geq 20\%$ , Skin Corr. 1B H314: $\geq 25\%$ , Skin Irrit. 2 H315: $\geq 10\%$ , Eye Dam. 1 H318: $\geq 25\%$ , Eye Irrit. 2 H319: $\geq 10\%$
CAS 7664-38-2		LD50 Oral: 1530 mg/kg
REACH Reg. 01-2119485924-24-XXXX		
<b>2-METHYL-2H-ISOTHIAZOL-3-ONE (MIT)</b>		
INDEX 613-326-00-9	0,002	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 220-239-6		Skin Sens. 1A H317: $\geq 0,0015\%$
CAS 2682-20-4		STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation mists/powders: 0,051 mg/l, STA Inhalation vapours: 0,501 mg/l
<b>ZINC PYRITHION</b>		
INDEX 613-333-00-7	0,002	Repr. 1B H360D, Acute Tox. 2 H330, Acute Tox. 3 H301, STOT RE 1 H372, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=10
EC 236-671-3		LD50 Oral: 221 mg/kg, LC50 Inhalation mists/powders: 0,14 mg/l/4h
CAS 13463-41-7		
<b>Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3: 1) (C(M)IT/MIT)</b>		
INDEX 613-167-00-5	0,001	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,



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Page n. 4/19

Replaced revision:5 (Printed on: 15/02/2022)

## **RUSTEN FINISH**

EC 611-341-5

CAS 55965-84-9

Aquatic Chronic 1 H410 M=100, EUH071, Classification note according to Annex VI to the CLP Regulation: B  
Skin Corr. 1C H314:  $\geq 0,6\%$ , Skin Irrit. 2 H315:  $\geq 0,06\%$ , Skin Sens. 1A H317:  $\geq 0,0015\%$ , Eye Dam. 1 H318:  $\geq 0,6\%$ , Eye Irrit. 2 H319:  $\geq 0,06\%$   
LD50 Oral: 66 mg/kg, LD50 Dermal: >141 mg/kg, STA Inhalation mists/powders: 0,051 mg/l, STA Inhalation vapours: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

#### **4.1. Description of first aid measures**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Information not available

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

### **SECTION 5. Firefighting measures**

#### **5.1. Extinguishing media**

##### **SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### **UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

#### **5.2. Special hazards arising from the substance or mixture**

##### **HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

#### **5.3. Advice for firefighters**

##### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).



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CROMOLOGY ITALIA S.P.A.

Revision nr. 6

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Page n. 5/19

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RUSTEN FINISH

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemičkim na radu,

**RUSTEN FINISH**

ITA	Italia	graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) Decreto Legislativo 9 Aprile 2008, n.81 Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19) EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2022
NLD	Nederland	
PRT	Portugal	
ROU	România	
SVN	Slovenija	
GBR	United Kingdom	
EU	OEL EU	
	TLV-ACGIH	

**PHOSPHORIC ACID  
Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2		4 (C)		INHAL
MAK	DEU	2		4		INHAL
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
TLV	GRC	1		3		
GVI/KGVI	HRV	1		2		
VLEP	ITA	1		2		
TGG	NLD	1		2		
VLE	PRT	1		2		
TLV	ROU	1		2		
MV	SVN	1		2		
WEL	GBR	1		2		
OEL	EU	1		2		
TLV-ACGIH		1		3		

**ZINC OXIDE  
Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	2		4		INHAL
MAK	DEU	0,1		0,4		RESP
VLA	ESP	2		10		
VLEP	FRA	5				
TLV	GRC	5		10		
GVI/KGVI	HRV	2		10		RESP
TLV	ROU	5		10		Fumuri
MV	SVN	5		20		RESP
TLV-ACGIH		2		10		RESP

**RUSTEN FINISH**

Predicted no-effect concentration - PNEC									
Normal value in fresh water				117,7					mg/mc
Normal value in marine water				6,1					mg/m3
Normal value for fresh water sediment				117,8					mg/kg
Normal value for marine water sediment				56,5					mg/kg
Normal value of STP microorganisms				52					mg/mc
Normal value for the terrestrial compartment				35,6					mg/kg
Health - Derived no-effect level - DNEL / DMEL									
Route of exposure	Effects on consumers			Effects on workers					
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral		VND		0,83 mg/kg p.c.		VND		VND	
Inhalation		VND		2,5 mg/mc		VND		5 mg/mc	
Skin		VND		83 mg/kg p.c.		VND		83 mg/kg p.c.	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**Hands protection**

Protect your hands with gloves resistant to chemicals (EN 374).

In the case of mixtures, the resistance of work gloves to chemical agents must be verified before use as it is not always predictable.

Materials also suitable for direct and prolonged contact, it is recommended: protection factor 6,> 480minute of permeation time (EN 374); nitrile rubber. Further information: the information is based on our experience, on bibliographic data and information of the manufacturers of gloves, or are obtained from the substances/mixtures of similar composition. The duration of use of a protective glove can be influenced by several factors such as the temperature and therefore in practice considerably less than the permeation time detected by the test.

Due to the large multiplicity of the types, it is appropriate to observe the instructions for use of gloves manufacturers.

**SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold

**RUSTEN FINISH**

values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	viscous liquid	
Colour	silver grey	
Odour	mild	
Odour threshold	Non significativo	
Melting point / freezing point	< 5 °C	
Initial boiling point	100 °C	
Flammability	not applicable	
Lower explosive limit	not applicable	
Upper explosive limit	not applicable	
Flash point	> 60 °C	
Auto-ignition temperature	not applicable	
Decomposition temperature	not applicable	
pH	8,5	Method:ISO 19396-1 Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	not available	
Dynamic viscosity	10000 mPa.s	Method:ISO 2884-1 Temperature: 20 °C
Solubility	partially soluble in water	Method:Derived Temperature: 20 °C
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not available	
Density and/or relative density	1,3 kg/l	Method:ISO 2811-1 Temperature: 20 °C
Relative vapour density	> 1	Method:Derived Temperature: 20 °C
Particle characteristics	not applicable	

**9.2. Other information**

9.2.1. Information with regard to physical hazard classes

Information not available



**RUSTEN FINISH**

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) : 140,00 g/litre

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

PHOSPHORIC ACID

May develop: phosphoryl oxides.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological

**RUSTEN FINISH**

effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3: 1) (C(M)IT/MIT)

LD50 (Dermal):	> 141 mg/kg Rat OECD 402
LD50 (Oral):	66 mg/kg Rat OECD 401

2-METHYL-2H-ISOTHIAZOL-3-ONE (MIT)

LD50 (Dermal):	> 2000 mg/kg Rat (OECD 402)
STA (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	> 2500 mg/kg Rat (OECD 423)

2,2,4-TRIMETHYL-1,3-PENTANDIOL MONOISOBUTYRATE

LD50 (Dermal):	> 2000 mg/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat



**RUSTEN FINISH**

**ZINC PYRITHION**

LD50 (Oral): 221 mg/kg  
LC50 (Inhalation mists/powders): 0,14 mg/l/4h

**PHOSPHORIC ACID**

LD50 (Dermal): 2740 mg/kg Rabbit  
LD50 (Oral): 1530 mg/kg Rat  
LC50 (Inhalation mists/powders): > 0,85 mg/l/1h Rat

**Hematite**

LD50 (Oral): > 2000 mg/kg Rast  
at the concentration of 100%

**SKIN CORROSION / IRRITATION**

Causes skin irritation

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION**

Sensitising for the skin

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**REPRODUCTIVE TOXICITY**

**RUSTEN FINISH**

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3: 1) (C(M)IT/MIT)  
LC50 - for Fish

0,22 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

0,0052 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

0,048 mg/l/72h Pseudokirchnerella subcapitata

Chronic NOEC for Fish

0,098 mg/l Onchorthyncus Mykiss (OECD 210)

Chronic NOEC for Crustacea

0,004 mg/l Daphnia magna (OECD 211)

Chronic NOEC for Algae / Aquatic Plants

0,00064 mg/l Skeletonema costantium (ISO 10263, RAC)

1,2-BENZOISOTIAZOL-3(2H)-ONE (BIT)

LC50 - for Fish

11 mg/l/96h Oncorhynchus mykiss (OECD 203)

EC50 - for Crustacea

16,4 mg/l/48h Daphnia magna (OECD 202)

EC50 - for Algae / Aquatic Plants

0,6 mg/l/72h Selenastrum capricornutum (OECD 201)

2,2,4-TRIMETHYL-1,3-PENTANDIOL

**RUSTEN FINISH**

**MONOISOBUTYRATE**

LC50 - for Fish	33 mg/l/96h (Alborella)
EC50 - for Crustacea	147,8 mg/l/48h (Daphnide)
EC50 - for Algae / Aquatic Plants	> 7,49 mg/l/72h Chlorella pyrenoidosa
Chronic NOEC for Fish	> 6 mg/l 96h
Chronic NOEC for Crustacea	> 1,4 mg/l 48h

**ZINC PYRITHION**

LC50 - for Fish	0,0104 mg/l/96h Brachydanio rerio (OECD 203)
EC50 - for Crustacea	0,0006 mg/l/48h RAC-Opinion 2018 (US-EPA 123-2)
EC50 - for Algae / Aquatic Plants	0,0013 mg/l/72h Selenastrum capricornutum (OECD 201)
Chronic NOEC for Fish	0,00125 mg/l 72h Brachydanio rerio (OECD 215)
Chronic NOEC for Crustacea	0,0022 mg/l 21d Daphnia Magna
Chronic NOEC for Algae / Aquatic Plants	0,00046 mg/l 96h Skeletonema costatum

**ZINC OXIDE**

LC50 - for Fish	1,1 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,14 mg/l/72h Pseudokirchnerella subcapitata
Chronic NOEC for Fish	0,53 0000000000
Chronic NOEC for Algae / Aquatic Plants	0,024 0000000000

**Hematite**

LC50 - for Fish	> 50000 mg/l/96h Danio Rerio
EC50 - for Crustacea	> 100 mg/l/48h Daphnia Magna; OECD TG 202

**12.2. Persistence and degradability**

Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3: 1) (C(M)IT/MIT)

Rapidly degradable

ALUMINIUM POWDER (STABILISED)

Solubility in water

Degradability: information not available

**PHOSPHORIC ACID**

Solubility in water > 850000 mg/l

Degradability: information not available

**ZINC OXIDE**

Solubility in water 2,9 mg/l

**12.3. Bioaccumulative potential**

Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3: 1) (C(M)IT/MIT)

BCF 3,6 Calculated

**RUSTEN FINISH**

1,2-BENZOISOTIAZOL-3(2H)-ONE (BIT)

Partition coefficient: n-octanol/water 0,7 n-Octanol/Water, OECD 117  
BCF 6,95 Pesce (OECD 305)

2-METHYL-2H-ISOTHIAZOL-3-ONE (MIT)

Partition coefficient: n-octanol/water 0,32 n-octanol/water  
BCF 3,16

ZINC PYRITHION

Partition coefficient: n-octanol/water 1,21 Log Kow n-octanol/water S2781

ZINC OXIDE

BCF > 175

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of



**RUSTEN FINISH**

the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number or ID number**

not applicable

**14.2. UN proper shipping name**

not applicable

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

not applicable

**14.6. Special precautions for user**

not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU: None

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Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :

Two-pack reactive performance coatings for specific end use such as floors.

This product contains biocidal products.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**



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Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Repr. 1B</b>	Reproductive toxicity, category 1B
<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 1</b>	Specific target organ toxicity - repeated exposure, category 1
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Skin Corr. 1C</b>	Skin corrosion, category 1C
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H290</b>	May be corrosive to metals.
<b>H360D</b>	May damage the unborn child.
<b>H310</b>	Fatal in contact with skin.
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H302</b>	Harmful if swallowed.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>EUH071</b>	Corrosive to the respiratory tract.

Use descriptor system:

**PC**            **9a**            Coatings and paints, thinners, paint removers

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation



- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**



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**RUSTEN FINISH**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 05 / 07 / 08 / 09 / 11 / 12 / 16.