



# ROADLINE RL52

## A high-performance, ambient crosslinking, water-based acrylic line marking paint

### Recommended Areas of Use

A quick drying universal line marking paint for use on roads, runways, car parks and sports facilities Can be used with Bradite Low Slip Additive LS30 to provide additional under foot traction (see Notes section for more details). Not for use on large, broad areas.

### Certificates & Approvals

Manufactured under the auspices of an ISO 9001:2008 quality & ISO 14001:2004 environmental management systems.

2004/42/EC EU limit value for this product (cat. A/b wb): 100g/l (2010). This product contains max.96g/l

### Properties

<b>Gloss</b>	Semi-gloss (approx. 35%)	<b>Surface dry</b>	20 Minutes
<b>Theoretical Coverage</b>	12 m <sup>2</sup> /L/coat (varies with surface porosity & texture)	<b>Minimum over coating time</b>	1 hour minimum
<b>Recommended number of coats</b>	2 full coats (on bare absorbent surfaces, apply a 20% thinned priming coat first)	<b>Maximum over coating time</b>	Unlimited
<b>Density</b>	1.179 kg/L	<b>Minimum application conditions</b>	Down to 5°C (but must be 3°C above dew point)
<b>Volume solids</b>	38.59%	<b>Time to light traffic</b>	16 hours minimum, after final coat
<b>Flash point (Abel closed cup)</b>	Nonflammable	<b>Full cure</b>	7 days
<b>VOC</b>	96 g/L	<b>Shelf life</b>	12 months minimum in original unopened containers.
<b>Thinner / Cleaning</b>	Water	<b>Colour range</b>	White & Yellow, other colours (RAL, British Std) available on request.
<b>Recommended wet film thickness</b>	100 microns/coat	<b>Recommended dry film thickness</b>	78 microns/coat

## Suitable Surfaces

For internal/external asphalt, steel, concrete, and other absorbent mineral substrates which are dry, free of contamination, dust, efflorescence laitance, and have been properly prepared and primed. Suitably prepared and well adhered existing coatings including polyurethane, epoxy, and chlorinated rubber. Compatibility with existing coatings should be confirmed by preparing and painting a test patch.

## Application Information

Drying times will be prolonged at lower temperatures. Application and use should always conform to the codes of practice described in BS 6150 and BS 5493.

**Brush and Roller** - Supplied ready for use. Thin, if required, with up to 5% water.

**Conventional Air Spraying** - Thin with 5-15% Water as required, tip size - 2.0mm, tip pressure 60psi (0.4MPa) approximately. (Guidelines only).

**Airless Spraying** - Thin with 5-15% water as required, tip size - 18 thou (0.46mm) approximately, tip pressure - 2100 psi (15MPa) approximately. (Guidelines only)

## Cleaning

Clean all equipment with water immediately after use for best results.

## Specification

### Preparation

Substrates should be dust free and completely dry before coating. When painting concrete, it is vital to ensure that the substrate is completely dry and free of laitance. If the concrete is loose, chipping or has concrete dust present, the coating will not perform properly unless all loose material and dust is removed, and damaged areas are repaired. Power floated, shiny or unpainted nonporous concrete floors should be thoroughly vacuum blast cleaned to a roughness profile of 30-50 microns, or acid etched using Bradite Acid Etch TA37. Please consult the product data sheet for more details.

High pressure water cleaning should be utilised to remove all loose and flaking paint and contamination back to a sound substrate. Bradite Industrial Degreaser TD39 should be used to remove all grease and oil. A second clean may be required to remove more stubborn stains (oil/grease).

Intact areas of existing coatings should be roughened by abrasive manual or disc rubbing and feathered back to a sound coating edge. Cracks and pits should be filled using a suitable screed or mortar before painting.

### Painting System

For application on concrete, wood or other absorbent substrates, the first coat should be thinned 5-10% water to allow penetration into the substrate.

1st coat	Bradite Roadline RL52 (thinned)
2nd coat	Bradite Roadline RL52
3rd coat	Bradite Roadline RL52

For maintenance painting, the first coat will be a touch up to bare areas only.

While the floor will take light foot traffic after overnight drying, full cure may take 3-7 days at 20°C and should not be subject to heavy traffic for at least 48 hours. Please note that drying/curing times will vary depending on film thickness, temperature, and relative humidity.

## Notes

Bradite Roadline RL52 is suitable for use with Bradite Low Slip Additive LS30, which can be incorporated into the paint.

Bradite Low Slip Additive LS30 should be added to the paint and mixed thoroughly just before use at a rate of 1 x 250ml LS30 tin (400g) per 5 litre of paint.

The end user and applicator must ensure that the finished floor is safe against slips in all likely usage conditions.

Risk of Slip	PTV
High	0-24
Moderate	25-35
Low	36+

Sample	Test	Temperature	Average Pendulum Test Value		Risk of Slip	
	Direction		Dry	Wet/Water	Dry	Wet
RL52	0°	23°C	40.3	31.7	Low	Moderate
RL52 + 10% Low Slip Additive	0°	23°C	63.3	51.7	Low	Low
RL52 + 20% Low Slip Additive	0°	23°C	66.7	60.0	Low	Low
RL52 + 30% Low Slip Additive	0°	23°C	73.3	58.3	Low	Low

## Summary Safety Information

Always refer to the Health and Safety sheet for the product before use, and observe the warning phrases on the label.

**Disclaimer** - The information on this data sheet is correct to the best of our knowledge and experience. Bradite reserves the right to modify data contained herein, without notice. The information supplied does not absolve users from responsibility to carry out their own tests and experiments, nor does it imply any legally binding assurance of certain properties or suitability for any specific purpose. Conditions of service and application may be beyond our control, so no liability whatsoever can be accepted on the basis of the information supplied herein.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form	: Mixture
Product name	: ROADLINE WB
Product code	: RL52
Type of product	: Paint
Product group	: End product

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category	: Consumer use
Function or use category	: Coatings and paints, thinners, paint removers

**1.2.2. Uses advised against**

No additional information available

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

Bradite Paints  
Ogwen Valley Works  
Bethesda Gwynedd  
LL57 4YP  
T +44 (0)1248 600315 - F +44 (0)1248 602782  
[sales@bradite.com](mailto:sales@bradite.com)

**1.4. Emergency telephone number**

Emergency number : +44 (0)1248 600315

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - Contains 1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5). May produce an allergic reaction.

**2.3. Other hazards**

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

### 3.2. Mixtures

Comments : Advanced Micro Matrix Embedding (AMME™) technology: Algicide/Fungicide based on following substances: Terbutryn, pyrithione zinc, 2-Octyl-2H-isothiazol-3-one, zinc oxide, 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ZINC OXIDE	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7 REACH-no: 01-2119463881-32	< 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2-BENZISOTHIAZOLIN-3-ONE	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	< 5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
PYRITHIONE ZINC	CAS-No.: 13463-41-7 EC-No.: 236-671-3 EC Index-No.: 613-333-00-7	0.012 (0.0044)	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)
TERBUTRYN	CAS-No.: 886-50-0 EC-No.: 212-950-5	0.016 (0.0016)	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-OCTYL-2H-ISOTHIAZOL-3-ONE	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	0.009 (0.0009)	Acute Tox. 4 (Oral), H302 (ATE=550 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=690 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH071
2-METHYLISOTHIAZOL-3(2H)-ONE	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50	< 5	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 1 (Inhalation), H330 (ATE=0.005 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6]	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	< 5	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH071

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
1,2-BENZISOTHIAZOLIN-3-ONE	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	( 0.05 ≤C < 100) Skin Sens. 1, H317
2-OCTYL-2H-ISOTHIAZOL-3-ONE	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	( 0.0015 ≤C ≤ 100) Skin Sens. 1A, H317
2-METHYLISOTHIAZOL-3(2H)-ONE	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-2120764690-50	( 0.0015 ≤C ≤ 100) Skin Sens. 1A, H317
A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6]	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	( 0.0015 ≤C < 100) Skin Sens. 1, H317 ( 0.06 ≤C ≤ 0.6) Skin Irrit. 2, H315 ( 0.06 ≤C ≤ 0.6) Eye Irrit. 2, H319 ( 0.6 ≤C < 100) Skin Corr. 1B, H314

### Comments

: Contains 2-methylisothiazol-3(2H)-one and 1,2-benzisothiazol-3(2H)-one to maintain storage stability. The percentages "total (free)%" of terbutryn are indicated. The free proportion is subject to the classification of the mixture with regard to environmentally hazardous properties, sensitisation. The percentages "total (free)%" of 2-octyl-2H-isothiazol-3-one are indicated. The free proportion is subject to the classification of the mixture with regard to environmentally hazardous properties, skin and eye irritation, sensitisation. The percentages "total (free)%" of pyrithione zinc are indicated. The free proportion is subject to the classification of the mixture with regard to environmentally hazardous properties, skin and eye irritation. Hazard statements see section 16

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Fire hazard : Not flammable.  
Explosion hazard : No direct explosion hazard.  
Reactivity in case of fire : Product is not explosive.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

Coatings and paints, thinners, paint removers.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

<b>2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	2-Methyl-2,3-di-hydroisothiazol-3-on
MAK (OEL TWA)	0.05 mg/m <sup>3</sup>
Remark	Sh
Regulatory reference	BGBl. II Nr. 156/2021
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle et 2,3-dihydro-isothiazol-3-one de 2-méthyle [2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle, 2,3-Dihydro-isothiazol-3-one de 2-méthyle] / 5-Chlor-2-methyl-2,3-dihydro-isothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on [2-Methyl-2,3-dihydroisothiazol-3-on, 5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on]
MAK (OEL TWA) [1]	0.2 mg/m <sup>3</sup> (i) / (e)
KZGW (OEL STEL)	0.4 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	VRS, Peau, Yeux / OAW, Haut, Auge
Notation	S, SS <sub>C</sub> / S, SS <sub>C</sub>
Regulatory reference	www.suva.ch, 28.03.2022
<b>2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	2-Octyl-2H-isothiazol-3-on
MAK (OEL TWA)	0.05 mg/m <sup>3</sup> (E)
OEL C	0.05 mg/m <sup>3</sup> (E)
Remark	H, S
Regulatory reference	BGBl. II Nr. 156/2021
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	0.05 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	2-oktil-2H-izotiazol-3-on
OEL TWA	0.05 mg/m <sup>3</sup>
OEL STEL	0.1 mg/m <sup>3</sup>
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021

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<b>2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)</b>	
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	2-октил-2H-изотиазол-3-он
OEL TWA	0.05 mg/m <sup>3</sup> (I) инхалабилна фракција – дел на вкупно суспендирани материи, кои работникот ги вдишува
KTV	1
Short time value [mg/m <sup>3</sup> ]	0.05 mg/m <sup>3</sup>
Remark	(KTV) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусно време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m <sup>3</sup> или во ml/m <sup>3</sup> (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност; (K) својство на полесно пренесување на супстанците во организмот преку кожата; (Y)
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија” бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	2-n-Octyle-2,3-dihydroisothiazol-3-one / 2-n-Octyl-2,3-dihydroisothiazol-3-on
MAK (OEL TWA) [1]	0.05 mg/m <sup>3</sup> (i) / (e)
KZGW (OEL STEL)	0.1 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	VRS / OAW
Notation	R, S / H, S
Regulatory reference	www.suva.ch, 28.03.2022
<b>ZINC OXIDE (1314-13-2)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Zinkoxid-Rauch
MAK (OEL TWA)	5 mg/m <sup>3</sup> (A)
Regulatory reference	BGBl. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Zinc (oxyde de) (fraction alvéolaire) # Zinkoxide (inadembare fractie)
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Цинков оксид
OEL TWA	5 mg/m <sup>3</sup> (като цинк)
OEL STEL	10 mg/m <sup>3</sup> (като цинк)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за заштита на работещите от ризици, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)

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<b>ZINC OXIDE (1314-13-2)</b>	
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Cinkov oksid
GVI (OEL TWA) [1]	2 mg/m <sup>3</sup> R (respirabilna prašina)
KGVI (OEL STEL)	10 mg/m <sup>3</sup>
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Oxid zinečnatý, jako Zn
PEL (OEL TWA)	2 mg/m <sup>3</sup>
NPK-P (OEL C)	5 mg/m <sup>3</sup>
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Zinkoxid og zinkoxidrøg
OEL TWA [1]	4 mg/m <sup>3</sup> beregnet som Zn
Regulatory reference	BEK nr 2203 af 29. november 2021
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Tsinkoksiid
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
<b>Finland - Occupational Exposure Limits</b>	
Local name	Sinkkioksiidi, huurut
HTP (OEL TWA) [1]	2 mg/m <sup>3</sup>
HTP (OEL STEL)	10 mg/m <sup>3</sup>
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Zinc (oxyde de)
VME (OEL TWA)	5 mg/m <sup>3</sup> (fumées) 10 mg/m <sup>3</sup> (poussières)
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Ψευδαργύρου Οξειδίο (καπνοί)
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Hungary - Occupational Exposure Limits</b>	
Local name	CINK-OXID
AK (OEL TWA)	5 mg/m <sup>3</sup> por 5 mg/m <sup>3</sup> füst

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<b>ZINC OXIDE (1314-13-2)</b>	
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); Por: N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok), füst: R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Zinc oxide, fume
OEL TWA [1]	2 mg/m <sup>3</sup> R (Respirable Fraction)
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Cinka oksīds
OEL TWA	0.5 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Cinko oksidas
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Poland - Occupational Exposure Limits</b>	
Local name	Tlenek cynku
NDS (OEL TWA)	5 mg/m <sup>3</sup> w przeliczeniu na Zn: frakcja wdychalna
NDSch (OEL STEL)	10 mg/m <sup>3</sup> w przeliczeniu na Zn: frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Óxido de zinco
OEL TWA	2 mg/m <sup>3</sup> R (Fração respirável)
OEL STEL	10 mg/m <sup>3</sup> R (Fração respirável)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	Oxid de zinc
OEL TWA	5 mg/m <sup>3</sup> (Fumuri)
OEL STEL	10 mg/m <sup>3</sup> (Fumuri)
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Oxid zinočnatý, dymy
NPHV (OEL TWA) [1]	1 mg/m <sup>3</sup> respirabilná frakcia
NPHV (OEL STEL)	1 mg/m <sup>3</sup> respirabilná frakcia

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<b>ZINC OXIDE (1314-13-2)</b>	
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
<b>Spain - Occupational Exposure Limits</b>	
Local name	Óxido de cinc
VLA-ED (OEL TWA) [1]	2 mg/m <sup>3</sup> Fracción respirable
VLA-EC (OEL STEL)	10 mg/m <sup>3</sup> Fracción respirable
Remark	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Zinkoxid
NGV (OEL TWA)	5 mg/m <sup>3</sup> totaldamm
Remark	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Sínkoxíð og sínkoxíðreykur, sem Zn
OEL TWA	4 mg/m <sup>3</sup>
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Sinkoksid
Grenseverdi (OEL TWA) [1]	5 mg/m <sup>3</sup>
Regulatory reference	FOR-2021-06-28-2248
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	цинков оксид – дим
OEL TWA	5 mg/m <sup>3</sup> (A) алвеоларна фракција – дел на вдишани суспендирани материји, кои доспеваат до алвеолите
KTV	4
Short time value [mg/m <sup>3</sup> ]	20 mg/m <sup>3</sup>
Remark	(KTV) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m <sup>3</sup> или во ml/m <sup>3</sup> (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Oxyde de zinc (fumée) / Zinkoxid (Rauch)

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<b>ZINC OXIDE (1314-13-2)</b>	
MAK (OEL TWA) [1]	3 mg/m <sup>3</sup> (a) / (a)
KZGW (OEL STEL)	3 mg/m <sup>3</sup> (a) / (a)
Critical toxicity	Fimétal / Metallrauch
Remark	NIOSH, OSHA
Regulatory reference	www.suva.ch, 28.03.2022
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Zinc oxide
ACGIH OEL TWA	2 mg/m <sup>3</sup> (R - Respirable particulate matter)
ACGIH OEL STEL	10 mg/m <sup>3</sup> (R - Respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Metal fume fever
Regulatory reference	ACGIH 2022
<b>A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)
MAK (OEL TWA)	0.05 mg/m <sup>3</sup>
Remark	Sh
Regulatory reference	BGBI. II Nr. 156/2021
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle et 2,3-dihydro-isothiazol-3-one de 2-méthyle [2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle, 2,3-Dihydro-isothiazol-3-one de 2-méthyle] / 5-Chlor-2-methyl-2,3-dihydro-isothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on [2-Methyl-2,3-dihydroisothiazol-3-on, 5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on]
MAK (OEL TWA) [1]	0.2 mg/m <sup>3</sup> (i) / (e)
KZGW (OEL STEL)	0.4 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	VRS, Peau, Yeux / OAW, Haut, Auge
Notation	S, SS <sub>C</sub> / S, SS <sub>C</sub>
Regulatory reference	www.suva.ch, 28.03.2022

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Various.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	: ≈ 8.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: ≈ 0 °C
Boiling point	: ≈ 100 °C
Flash point	: > 100 °C
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: ≈ 1.2 kg/l
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: ≈ 108 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available

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### 9.2. Other information

VOC content :  $\approx$  100 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Oxidizing agent. Strong acids.

### 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 toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### 1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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#### PYRITHIONE ZINC (13463-41-7)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity)
-----------------	--

#### 2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)

LD50 oral rat	550 mg/kg
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LD50 dermal	690 mg/kg
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#### ZINC OXIDE (1314-13-2)

LD50 oral rat	> 15000 mg/kg
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LD50 oral	7950 mg/kg
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#### A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)

LD50 dermal rat	> 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
-----------------	---

Skin corrosion/irritation : Not classified  
pH:  $\approx$  8.5

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Additional information : 'Non-skin sensitising on the basis of the results on similar tested mixtures using bridging principles in accordance with CLP Regulation Article 9 (4);  
OECD 429 LLNA (mouse) - non-skin sensitising - S4565

### 2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)

pH	2.58 Temp.: 25 °C Concentration: 50 g/L
----	---

### A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)

pH	3.43 Temp.: 20 °C Concentration: 10 g/L
----	---

Serious eye damage/irritation : Not classified  
pH: ≈ 8.5

### 2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)

pH	2.58 Temp.: 25 °C Concentration: 50 g/L
----	---

### A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)

pH	3.43 Temp.: 20 °C Concentration: 10 g/L
----	---

Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified

### 1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5)

NOAEL (animal/female, F1)	56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
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### PYRITHIONE ZINC (13463-41-7)

LOAEL (animal/male, F1)	2.8 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
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LOAEL (animal/female, F1)	1.4 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
---------------------------	--

NOAEL (animal/male, F1)	1.4 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
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NOAEL (animal/female, F1)	0.7 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
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STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

### 2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)

LOAEL (oral, rat, 90 days)	71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:
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STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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### PYRITHIONE ZINC (13463-41-7)

LOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
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NOAEL (oral, rat, 90 days)	0.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
----------------------------	---

NOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
-------------------------------------	--

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
------------------------	---

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<b>A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)</b>	
LOAEL (dermal, rat/rabbit, 90 days)	0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

<b>ROADLINE WB</b>	
Viscosity, kinematic	≈ 108 mm <sup>2</sup> /s

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

<b>2-METHYLISOTHIAZOL-3(2H)-ONE (2682-20-4)</b>	
LC50 - Fish [1]	4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.6 mg/l Test organisms (species): Daphnia magna

<b>1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5)</b>	
LC50 - Fish [1]	≈ 16.7 mg/l Test organisms (species): Cyprinodon variegatus
LC50 - Fish [2]	2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	2.94 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	2.9 mg/l Test organisms (species): Daphnia magna

<b>PYRITHIONE ZINC (13463-41-7)</b>	
LC50 - Fish [1]	2.6 µg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	0.4 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Crustacea [1]	8.2 µg/l Test organisms (species): Daphnia magna

<b>2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)</b>	
LC50 - Fish [1]	0.2 mg/l
EC50 - Other aquatic organisms [1]	2.6 mg/l
EC50 96h - Algae [1]	0.15 mg/l Test organisms (species):

<b>A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)</b>	
LC50 - Fish [1]	0.19 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	0.28 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	0.16 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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### A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6] (55965-84-9)

NOEC chronic fish

0.098 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
European List of Waste (LoW) code : 08 01 12 - waste paint and varnish other than those mentioned in 08 01 11

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not regulated	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Not applicable

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### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### VOC Directive (2004/42)

VOC content :  $\approx 100$  g/l

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism
RG 66	Occupational rhinitis and asthma

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids.

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Joint storage table	:	<table border="1"><tr><td>LGK 1</td><td>LGK 2A</td><td>LGK 2B</td><td>LGK 3</td><td>LGK 4.1A</td></tr><tr><td>LGK 4.1B</td><td>LGK 4.2</td><td>LGK 4.3</td><td>LGK 5.1A</td><td>LGK 5.1B</td></tr><tr><td>LGK 5.1C</td><td>LGK 5.2</td><td>LGK 6.1A</td><td>LGK 6.1B</td><td>LGK 6.1C</td></tr><tr><td>LGK 6.1D</td><td>LGK 6.2</td><td>LGK 7</td><td>LGK 8A</td><td>LGK 8B</td></tr><tr><td>LGK 10</td><td>LGK 11</td><td>LGK 12</td><td>LGK 13</td><td>LGK 10-13</td></tr></table>	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13
LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A																							
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B																							
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C																							
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B																							
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13																							
Joint storage not permitted for	:	LGK 1, LGK 6.2, LGK 7.																									
Joint storage with restrictions permitted for	:	LGK 4.1A, LGK 4.3, LGK 5.1C.																									
Joint storage permitted for	:	LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.																									

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

ABM category	:	Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioaccumulative potential/ toxicity or persistence)
SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	PYRITHIONE ZINC is listed

### Denmark

Danish National Regulations	:	Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal
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### Switzerland

Storage class (LK)	:	LK 10/12 - Liquids
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## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer

# ROADLINE WB

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

Abbreviations and acronyms:	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH071	Corrosive to the respiratory tract.
EUH208	Contains 1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.

# ROADLINE WB

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830

Full text of H- and EUH-statements:	
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.