



CROMOLOGY ITALIA S.P.A.

Revision nr. 5

Dated 09/04/2025

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Page n. 1/19

Replaced revision:4 (Printed on: 23/03/2023)

AQUA PROTECTION

Safety Data Sheet

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

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

1.1. Product identifier

Code: 455173
Product name: AQUA PROTECTION

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

Identified Uses	Industrial	Professional	Consumer
Mural finish	-	✓	-

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:

Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

AQUA PROTECTION

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

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 / clothing.

P332+P313 If skin irritation occurs: Get medical advice / attention.

P501 Dispose of contents/container according to local regulation.

Contains: 2-Ottit-2h-Isatiazol-3-One (Oit)
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)
2-Metyl-1,2-Benzothiazol-3 (2h)-one MBIT
2-METHYL-2H-ISOTHIAZOL-3-ONE (MIT)
1,2-BENZOISOTIAZOL-3(2H)-ONE (BIT)

VOC (Directive 2004/42/EC) :

Binding primers.

VOC given in g/litre of product in a ready-to-use condition : 30,00

Limit value: 30,00

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%.


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

SECTION 3. Composition/information on ingredients

AQUA PROTECTION
3.2. Mixtures

Contains:

Identification	Conc. %	Classification (EC) 1272/2008 (CLP)
DIPROPYLENE GLYCOL MONOMETHYL ETHER INDEX - EC 252-104-2 CAS 34590-94-8 REACH Reg. 01-2119450011-60-XXXX	1	Substance with a community workplace exposure limit.
3-IODINE-2-PROPINYLBUTYL CARBAMATE (IPBC) INDEX 616-212-00-7 EC 259-627-5 CAS 55406-53-6	0,059	Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 1 H372, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 LD50 Oral: 532 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l
1,2-BENZOISOTIAZOL-3(2H)-ONE (BIT) INDEX 613-088-00-6 EC 220-120-9 CAS 2634-33-5 REACH Reg. 01-2120761540-60	0,033	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 Skin Sens. 1A H317: $\geq 0,036\%$ LD50 Oral: 450 mg/kg, LC50 Inhalation mists/powders: 0,21 mg/l/4h
Sodium pyrithione INDEX 613-344-00-7 EC 223-296-5 CAS 3811-73-2	0,015	Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 1 H372, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 2 H411, EUH070 LD50 Oral: 500 mg/kg, LD50 Dermal: 790 mg/kg, LC50 Inhalation mists/powders: 0,5 mg/l/4h
2-Ottil-2h-Isatiazol-3-One (Oit) INDEX 613-112-00-5 EC 247-761-7 CAS 26530-20-1	0,003	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1 H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071 Skin Sens. 1A H317: $\geq 0,0015\%$ LD50 Oral: 125 mg/kg, LD50 Dermal: 311 mg/kg, ATE Inhalation mists/powders: 0,051 mg/l
FORMALDEHYDE INDEX 605-001-00-5 EC 200-001-8 CAS 50-00-0	0,003	Carc. 1B H350, Muta. 2 H341, Acute Tox. 2 H330, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1A H317, EUH071, Classification note according to Annex VI to the CLP Regulation: B, D, F Skin Corr. 1B H314: $\geq 25\%$, Skin Irrit. 2 H315: $\geq 5\% - < 25\%$, Eye Dam. 1 H318: $\geq 25\%$, Eye Irrit. 2 H319: $\geq 5\% - < 25\%$, STOT SE 3 H335: $\geq 5\%$ LD50 Oral: 500 mg/kg, ATE Inhalation gas: 100 ppm
2-METHYL-2H-ISOTHIAZOL-3-ONE (MIT) INDEX 613-326-00-9 EC 220-239-6	0,001	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 Skin Sens. 1A H317: $\geq 0,0015\%$

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	AQUA PROTECTION	Dated 09/04/2025 Printed on 09/04/2025 Page n. 4/19 Replaced revision:4 (Printed on: 23/03/2023)

CAS 2682-20-4		LD50 Oral: 120 mg/kg, LD50 Dermal: 300 mg/kg, LC50 Inhalation mists/powders: 0,34 mg/l/4h
2-Metyl-1,2-Benzothiazol-3 (2h)-one MBIT		
INDEX 613-336-00-3	0,00070	Acute Tox. 3 H301, Acute Tox. 4 H312, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 695-989-4		Skin Sens. 1A H317: ≥ 0,0015%
CAS 2527-66-4		LD50 Oral: 175 mg/kg, ATE Dermal: 1100 mg/kg
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)		
INDEX 613-167-00-5	0,00041	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, Aquatic Chronic 1 H410 M=100, EUH071, Classification note according to Annex VI to the CLP Regulation: B
EC 611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06% - < 0,6%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% - < 0,6%
CAS 55965-84-9		LD50 Oral: 66 mg/kg, LD50 Dermal: >141 mg/kg, LC50 Inhalation mists/powders: 0,17 mg/l/4h

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.

Rescuer protection

Information not available

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

Means to have available in the workplace for specific and immediate treatment

Information not available

SECTION 5. Firefighting measures

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	AQUA PROTECTION	

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).

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

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	AQUA PROTECTION				Dated 09/04/2025 Printed on 09/04/2025 Page n. 7/19 Replaced revision:4 (Printed on: 23/03/2023)
VLEP	FRA	308	50	SKIN	
TLV	GRC	600	100	900	150
GVI/KGVI	HRV	308	50	SKIN	
VLEP	ITA	308	50	SKIN	
TGG	NLD	300			
VLE	PRT	308	50	SKIN	
TLV	ROU	308	50	SKIN	
MV	SVN	308	50	SKIN	
WEL	GBR	308	50	SKIN	
OEL	EU	308	50	SKIN	
TLV-ACGIH			50		
FORMALDEHYDE					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	0,37	0,3	0,74	0,6
MAK	DEU	0,37	0,3	0,74	0,6
VLA	ESP	0,37	0,3	0,74	0,6
VLEP	FRA	0,37	0,3	0,74	0,6
TLV	GRC	0,37	0,3	0,74	0,6
GVI/KGVI	HRV	0,37	0,3	0,74	0,6
VLEP	ITA	0,37	0,3	0,74	0,6
TGG	NLD	0,15		0,5	
VLE	PRT	0,37	0,3	0,74	0,6
TLV	ROU	0,37	0,3	0,74	0,6
MV	SVN	0,62	0,5	0,62	0,5
WEL	GBR	2,5	2	2,5	2
OEL	EU	0,37	0,3	0,74	0,6
TLV-ACGIH			0,1		0,3
Legend:					
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.					
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.					

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	AQUA PROTECTION	

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Protect your hands with gloves of the following type:

Material: Nitrile rubber (NBR)

Before use, check that the protective gloves are not damaged. the material indicated is a possible choice; other materials may be suitable, depending on the specifications indicated by the manufacturer

Thickness: 0,4 mm

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

Breakthrough time: 480 min

The resistance of gloves depends on various factors, such as temperature. In the case of mixtures, the resistance of work gloves to chemical agents must be checked before use as it is not always predictable

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 airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

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

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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	Temperature: 20 °C
Colour	colourless	
Odour	mild, characteristic	
Melting point / freezing point	< 5 °C	
Initial boiling point	not available	
Flammability	not flammable	Method:Derived
Lower explosive limit	not applicable	Reason for missing data:il prodotto non contiene nessuna sostanza con gruppi chimici associati a proprietà esplosive.
Upper explosive limit	not applicable	Reason for missing data:il prodotto non contiene nessuna sostanza con gruppi

AQUA PROTECTION

Flash point	> 60 °C	chimici associati a proprietà esplosive. Method:Derived
Auto-ignition temperature	not applicable	
Decomposition temperature	not applicable	
pH	9	Method:ISO 19396-1 Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	not available	Reason for missing data:Not significant data for classification
Dynamic viscosity	13000 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	Reason for missing data:Non applicabile a miscela
Vapour pressure	23 hPa	Substance:WATER Vapour pressure: 17,5 mmHg Temperature: 20 °C
Density and/or relative density	1,04 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

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) : 2,88 % - 30,00 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.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

FORMALDEHYDE

Decomposes under the effect of heat.

Acqueous solutions are stabilised with methanol but tend to polymerise over time.

AQUA PROTECTION

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.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

FORMALDEHYDE

Risk of explosion on contact with: nitromethane,nitrogen dioxide,hydrogen peroxide,phenoles,performic acid,nitric acid.May polymerise on contact with: strong oxidising agents,alkalis.May react dangerously with: hydrochloric acid,magnesium carbonate,sodium hydroxide,perchloric acid,aniline.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat.Possibility of explosion.

FORMALDEHYDE

Avoid exposure to: light,sources of heat,naked flames.

10.5. Incompatible materials

FORMALDEHYDE

Incompatible with: acids,alkalis,ammonia,tannin,strong oxidants,phenoles,copper salts,silver,iron.

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.

FORMALDEHYDE

When heated to decomposition releases: methanol,carbon monoxide.

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 effects of exposure to the product.

AQUA PROTECTION

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
LC50 (Inhalation mists/powders):	0,17 mg/l/4h

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

LD50 (Oral):	450 mg/kg ATP 21
LC50 (Inhalation mists/powders):	0,21 mg/l/4h ATP 21

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

LD50 (Dermal):	300 mg/kg
LD50 (Oral):	120 mg/kg
LC50 (Inhalation mists/powders):	0,34 mg/l/4h

Tripropylene glycol

LD50 (Oral):	> 2000 mg/kg Rat
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3-IODINE-2-PROPINYLBUTYL CARBAMATE (IPBC)

LD50 (Dermal):	> 2000 mg/kg rat
LD50 (Oral):	532 mg/kg rat female
LC50 (Inhalation mists/powders):	0,4 mg/l/4h Polvere respirabile

2-Ottil-2h-Isatiazol-3-One (Oit)

LD50 (Dermal):	311 mg/kg
LD50 (Oral):	125 mg/kg
LC50 (Inhalation mists/powders):	0,27 mg/l

FORMALDEHYDE

LD50 (Dermal):	270 mg/kg Rabbit
LD50 (Oral):	500 mg/kg STA ATP21
LC50 (Inhalation gas):	100 ppm/4h STA ATP21



AQUA PROTECTION

Sodium pyrithione

LD50 (Dermal):

790 mg/kg 18 ATP to CLP

LD50 (Oral):

500 mg/kg 18 ATP to CLP

LC50 (Inhalation mists/powders):

0,5 mg/l/4h 18 ATP to CLP

2-Metyl-1,2-Benzothiazol-3 (2h)-one MBIT

LD50 (Oral):

175 mg/kg STA (ATP15)

LC50 (Inhalation mists/powders):

> 0,5328 mg/l/4h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

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

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

AQUA PROTECTION

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 Pseudokirchneriella 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 costatum (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)

Chronic NOEC for Crustacea

1,2 mg/l Daphnia magna OECD 215

Tripropylene glycol

LC50 - for Fish

> 1000 mg/l/96h Cipriniformi OECD 203

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h Pseudokirchneriella subcapitata OECD 201

3-IODINE-2-PROPINYLBUTYL CARBAMATE (IPBC)

LC50 - for Fish

0,067 mg/l/96h Oncorhynchus mykiss (OECD 203)

EC50 - for Crustacea

0,16 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

0,022 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish

0,049 mg/l Fhis Rainbow trout

2-Ottil-2h-Isatiazol-3-One (Oit)

LC50 - for Fish

0,036 mg/l/96h Oncorhynchus mykiss (OECD 203)

EC50 - for Crustacea

0,42 mg/l/48h (Daphnia magna) (OECD 202)

EC50 - for Algae / Aquatic Plants

0,0015 mg/l/72h (Skeletonema costatum) (OECD 201 - OCSPP 850.5400)

Chronic NOEC for Fish

0,022 mg/l 28d Oncorhynchus mykiss (OECD 210)

Chronic NOEC for Crustacea

0,002 mg/l 21 d (OECD 211)

Chronic NOEC for Algae / Aquatic Plants

0,00068 mg/l 72h Algae (Skeletonema costatum) (OECD 201)

Sodium pyrrithione

LC50 - for Fish

< 0,0077 mg/l/96h Danio rerio; OECD TG 203 GLP Year: 2015

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

2-Ottil-2h-Isatiazol-3-One (Oit)

NOT rapidly degradable

AQUA PROTECTION

**DIPROPYLENE GLYCOL MONOMETHYL
ETHER**

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

FORMALDEHYDE

Solubility in water 55000 mg/l

Rapidly degradable

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

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

**DIPROPYLENE GLYCOL MONOMETHYL
ETHER**

Partition coefficient: n-octanol/water 0,0043

FORMALDEHYDE

Partition coefficient: n-octanol/water 0,35

BCF < 1

12.4. Mobility in soil

FORMALDEHYDE

Partition coefficient: soil/water 1,202

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



AQUA PROTECTION

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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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 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

AQUA PROTECTION

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

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

Point 72-77 FORMALDEHYDE

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:

AQUA PROTECTION

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) :

Binding primers.

Contains biocidal products.

This product contains the following biocidal products for dry film protection:

2-octyl-2H-isothiazol-3-one OIT CAS: 26530-20-1, 3-iodine-2-propynylbutylcarbamate IPBC CAS: 55406-53-6.

These biocidal products can cause an allergic reaction. Read the label before use.

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

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

Carc. 1B	Carcinogenicity, category 1B
Muta. 2	Germ cell mutagenicity, category 2
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H350	May cause cancer.
H341	Suspected of causing genetic defects.
H310	Fatal in contact with skin.

AQUA PROTECTION

H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H372	Causes damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH070	Toxic by eye contact.
EUH071	Corrosive to the respiratory tract.

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

AQUA PROTECTION

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)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI 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

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:

01 / 02 / 03 / 04 / 06 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.