

Technical Data Sheet

Bulls Eye 1-2-3 Water-Based Primer Sealer

All Surface, All Purpose Stain Killer Bond Coat
Generic Type – 100% acrylic resin water-based
Interior / exterior stain blocking primer sealer.

Performance Characteristics

- Fast drying – may be recoated in 1 hour
- Adheres to glossy surfaces without pre-sanding or deglossing
- Rust inhibitive coating
- Resists mold and mildew on primer film
- High pH resistance (up to 12.5)
- Seals common graffiti stains
- Excellent enamel undercoat
- Compatible with oil or latex topcoats
- Clean up with soapy water

Recommended Uses–

Apply to interior and exterior – walls, ceilings, doors, trim, fascia, soffits, foundations, railings, and related paintable surfaces. Bulls Eye 1-2-3® bonds to wood, plaster, concrete, gloss enamels, hardboard, glass and tile. Provides a rust inhibitive coating on iron railings, steel frames, piping, etc. Resists the growth of mold and mildew on primer film in damp, humid environments. Resistant to high pH surfaces (up to 12.5) including; plaster, poured concrete, concrete block, stucco and 'hot' joint / texture compounds. Seals porous surfaces and traps most stains in the primer film – graffiti, grease, rust, cedar and redwood tannin, creosote, and asphalt stains. Some stains may require a second coat. Interior Substrates– New or previously painted drywall, cured plaster, cement, poured concrete, concrete block, stucco, wood (pine, fir, birch, oak and plywood), aluminium, iron, steel and galvanised metal, PVC, glossy laminates and other interior surfaces.

Exterior Substrates–

Recommended for all types of wood (New or previously painted pine, fir, cedar, redwood, plywood, T-111, and pressure treated wood), hardboard, metal (aluminium, steel, iron and galvanised metal), PVC, fibreglass, masonry (stucco, concrete block, poured concrete and brick). Rust Inhibitive– Dries to a tight, water resistant film that inhibits development and spread of rust on metal. Remove rust and wipe surface clean with a rag dampened in alcohol.

Mould and Mildew Resistance–

Resists the growth of mold and mildew on the primer film. High pH Resistance – Can be applied to high pH surfaces (up to 12.5) without bubbling, lifting or degrading due to high alkalinity making it an ideal primer for concrete, stucco, plaster and fast setting joint / texture compounds.

Cedar and Redwood Bleed–

Traps tannins in the primer film to prevent them from 'bleeding' into the finish coat. For best results, allow to dry overnight before applying topcoat. Very porous woods may require two coats before topcoat.

Chalky Siding–

Contains chalk-binding resins for use on moderately chalked aluminium or previously painted siding and trim.

Glossy Surfaces– Adheres to glossy enamel paints and clear finishes, Formica®, Masonite®, PVC, fibreglass, vinyl – even ceramic tile – without pre-sanding or surface deglossing.

Application–

Ready to use - no dilution necessary. In most cases only one coat is necessary. Porous surfaces may require two coats to properly seal. Prime entire surface for best results.

Thinning–

If thinning is necessary add no more than 10 % clean water and stir thoroughly. Note that thinning the primer may affect its stain blocking properties.

Cleanup–

Clean application tools with warm water and liquid detergent or household cleaner. Work solution into bristles/nap and rinse well. If Bulls Eye® 1-2-3 dries, use Zinsser BIN Brush Cleaner to remove dried paint on brushes.

Disposal–

Dispose of unused or unwanted product in accordance with local laws regulating water-based coatings.

Surface Preparation–

Surfaces should be clean, dry, sound and free of dust, dirt, excessive chalky material, grime, grease, oil, wax, mould, wallpaper adhesive or any contamination that may interfere with adhesion. If unsure, always wash surface with a household cleaner, appropriate cleaning solution, or solvent. Clean new galvanised with methylated spirit. Remove any unsoundly adhered coatings. Sand any remaining paint film edges smooth with the surface. New plaster which is polished or dusty should be sealed with Zinsser Gardz®. Lightly sand exposed exterior wood with 80 to 100 grit sandpaper to remove loose or weathered wood fibers. When priming over stained areas, first attempt to remove as much of the stain as possible by washing, sanding, scraping, etc. Remove mould and treat area with Blackfriar Fungicidal Wash, or Zinsser Mould Killer & Remover. Wire brush rusty areas. Spot prime knots and sap streaks with Zinsser B-I-N® Primer-Sealer.

WARNING! If you scrape, sand or remove old paint, you

may release lead dust.

Special precautions should be taken during the surface preparation of pre 1960's paint surfaces over wood and metal as they may contain harmful lead. When dry-sanding avoid dust inhalation by wearing a suitable protective face mask.

Limitations-

Bulls Eye® 1-2-3 is not intended for blocking heavy water stains or for application to floors, decks, roof surfaces or any surface subject to immersion or prolonged contact with water. These limitations not to be construed as all Inclusive.

Dry Time – At normal temperatures Bulls Eye® 1-2-3 will dry to touch in 30 minutes and can be recoated after one hour. Topcoat within 30 days. Lower temperatures, higher humidity, and the addition of tint will prolong dry and cure time of the product. Full adhesion and hardness develop in 7 days.

Coverage – 10m² per litre. Coverage may vary with surface porosity.

Precautions-

Consult product Safety Data Sheet.

Warranty–

Bulls Eye® 1-2-3 is guaranteed to perform as indicated when applied according to label directions to a properly prepared surface. Directions are as complete as possible but cannot encompass all conditions, applications, and / or surfaces beyond manufacturer's control. The contents of the container are warranted to be free from any other defect for 2 years from the date of manufacture. All warranties and guarantees are limited to refund or replacement of product used with proof of purchase. No other warranty or guarantee is expressed or implied.

Application Data

Shake or stir before using. Apply with a synthetic bristle brush, roller or pad. If thinning is required add no more than 78ml clean water per litre and apply a second coat of primer. Apply when air and surface temperature is between 10° - 32°C and relative humidity is less than 85%.

Application Conditions

Temperature Range: 10°– 32°C

Relative Humidity: 10% - 85%

Substrate Moisture: 12% max moisture content

Dry Time (24°C / 50% RH)

To Touch: 35 min

To Recoat: 1 hr

Stain Sealing: 2 hrs / Tannin 24 hrs

Full Scrape Cure: 7 days

Tinting

Bulls Eye® 1-2-3 can be tinted with up to 16ml of universal tinter per litre. Tinting the primer toward the colour of the topcoat helps it hide in one coat. For mid-tone to deep colours use Bulls Eye® 1-2-3 Deep Tint.

Specification Data

Solids by weight: 50.5%

Solids by volume: 34.0%

Density: 1.8kg / litre

Viscosity range 100 – 110 KU

Gloss: @ 60° / 3 day cure 23% (satin)

Enamel holdout: 1.0% gloss change

Wet adhesion Pass 2000 cycles

Flexibility: / 7 day cure (1/4" Mandrel) Pass / 5A

Flame Spread: (ASTM-84-97A) 5, Class 1

Smoke Contribution: (ASTM-84-97A) 0, Class 1

Flash Point: (ASTM-D3278) > 82°C

VOC: less than 30g / litre

Freeze / thaw stable Yes

Shelf Life: 2 years in unopened containers

Storage / Handling Store indoors

5°C - 25°C



SAFETY DATA SHEET

Zinsser Bulls-Eye® 1-2-3

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

1.1 Product identifier

Product name : Zinsser Bulls-Eye® 1-2-3
Product description : Paint
Product type : Liquid.
UFI : N7RQ-CCVR-2KK8-7XKK

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

Identified uses	
Consumer use Industrial use Professional use	
Uses advised against	Reason
None identified.	-

1.3 Details of the supplier of the safety data sheet

RUST-OLEUM EUROPE
 Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium
 Telephone no.: +32 (0) 13 460 200
 Fax no.: +32 (0) 13 460 201

Tor Coatings Limited
 Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom
 Telephone no.: +44 (0) 191 4106611
 Fax no.: +44 (0) 191 4920125
 enquiries@tor-coatings.com

e-mail address of person responsible for this SDS : rpmeurohas@rustoleum.eu

1.4 Emergency telephone number

National advisory body/Poison Centre

Supplier

Telephone number : +44 870 8200418 / +44 2038073798
Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317


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

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

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

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	May cause an allergic skin reaction.
<u>Precautionary statements</u>		
General	:	P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	P280 - Wear protective gloves.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	2,4,7,9-tetramethyldec-5-yne-4,7-diol 1,2-benzisothiazol-3(2H)-one 4,5-dichloro-2-octyl-2H-isothiazol-3-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
<u>Special packaging requirements</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do not result in classification : None known.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

United Kingdom: Great Britain

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤3	Not classified.	[2]
2,4,7,9-tetramethyldec-5-yne-4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0,3	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
1,2-benzisothiazol-3(2H)-one	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≤0,1	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7	≤0,1	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=10)	[1]
4,5-dichloro-2-octyl-2H-isothiazol-3-one	EC: 264-843-8 CAS: 64359-81-5	≤0,1	Acute Tox. 4, H302 Acute Tox. 2, H330 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	[1]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	REACH #: 01-2120764691-48 EC: 611-341-5 CAS: 55965-84-9 Index: 613-167-00-5	≤0,1	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) See Section 16 for the full text of the H statements declared above.	[1]

Type

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SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

This mixture contains $\geq 1\%$ of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

SCL (Specific Concentration Limits)	
1,2-benzisothiazol-3(2H)-one	H317 = 0.05 %
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	H317 = 0.0015 %
4,5-dichloro-2-octyl-2H-isothiazol-3-one	H317 = 0.0015 % H315 = 0.025 % H319 = 0.025 %
ATE (acute toxicity estimates)	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	H330: ATE= 0,16 mg/L (dusts/mists) H302: ATE= 567 mg/kg
Nanoform	
Particle characteristics	Particle Size
This product does not contains nanomaterials.	Not applicable.

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use DRY chemicals, CO₂, alcohol resistant foam or water spray.
- Unsuitable extinguishing media** : water jet

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : No unusual hazard if involved in a fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 4 to 26°C (39,2 to 78,8°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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SECTION 7: Handling and storage

7.3 Specific end use(s)

- Recommendations** : Not available.
Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

United Kingdom: Great Britain

Product/ingredient name	Exposure limit values
propane-1,2-diol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Particulate TWA: 474 mg/m ³ 8 hours. Form: total vapour and particulates TWA: 150 ppm 8 hours. Form: total vapour and particulates

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Recommended: safety glasses with side-shields (EN 166)

Skin protection

SECTION 8: Exposure controls/personal protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
For prolonged or repeated handling, use the following type of gloves: nitrile rubber (EN 374) (breakthrough time) >8hours
The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear overalls or long sleeved shirt. (EN 467)
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: In case of insufficient ventilation, wear suitable respiratory equipment. organic vapour filter (Type A) (EN 140)
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

- Physical state** : Liquid. [Viscous liquid.]
- Colour** : White. Grey.
- Odour** : Acrylic. [Slight]
- Odour threshold** : Not available.
- Melting point/freezing point** : 0°C
- Initial boiling point and boiling range** : >100°C (>212°F)
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Nonflammable, but will burn on prolonged exposure to flame or high temperature.
- Upper/lower flammability or explosive limits** : Not available.

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SECTION 9: Physical and chemical properties

Flash point	: Not relevant due to nature of the product.
Auto-ignition temperature	: Not relevant due to nature of the product.
Decomposition temperature	: Not available.
pH	: 9 to 10
pH : Justification	: Not available.
Viscosity	: Dynamic: 3000 to 8000 mPa·s [ASTM D562 [KU]]
Solubility(ies)	: Soluble in the following materials: cold water and hot water. Very slightly soluble in the following materials: methanol and acetone.
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	: 2,3 kPa (17,25 mm Hg) [Literature]
Evaporation rate	: <1 (butyl acetate = 1)
Relative density	: 1,28 to 1,29
Density	: 1,25 to 1,32 g/cm ³ [20°C (68°F)] [ASTM D 1217]
Vapour density	: >1 [Air = 1]
Explosive properties	: Not applicable.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO ₂ and smoke can be generated.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,4,7,9-tetramethyldec-5-yne-4,7-diol	LC50 Inhalation Dusts and mists	Rat	>20 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	>20 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
1,2-benzisothiazol-3(2H)-one	LC50 Inhalation Dusts and mists	Rat	0,11 mg/l	4 hours
	LC50 Inhalation Dusts and	Rat - Male,	0,5 mg/l	4 hours

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SECTION 11: Toxicological information

pyrithione zinc	mists LD50 Oral	Female Rat - Male	490 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	140 mg/m ³	4 hours
4,5-dichloro-2-octyl-2H-isothiazol-3-one	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	290 mg/m ³	4 hours
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	756 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat - Male, Female	0,171 mg/l	4 hours
	LD50 Dermal	Rabbit	92,4 mg/kg	-
	LD50 Oral	Rat	64 mg/kg	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
2,4,7,9-tetramethyldec-5-yne-4,7-diol	4600	N/A	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	490	N/A	N/A	0,5	N/A
pyrithione zinc	221	N/A	N/A	N/A	0,14
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	N/A	N/A	N/A	0,16
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	64	92,4	N/A	N/A	0,171

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Eyes - Severe irritant	Rabbit	-	0.1 Milliliters	-
	Skin - Mild irritant	Rabbit	-	0.5 Grams	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-
	Skin - Severe irritant	Rabbit	-	-	1 to 4 hours
	Eyes - Severe irritant	Rabbit	-	-	-

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met.

Eyes : Based on available data, the classification criteria are not met.

Respiratory : Based on available data, the classification criteria are not met.

Sensitisation

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SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
2,4,7,9-tetramethyldec-5-yne-4,7-diol	skin	Mouse	Sensitising
1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	skin skin	Guinea pig Guinea pig	Sensitising Sensitising

Conclusion/Summary

Skin : May cause an allergic skin reaction.

Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pyrithione zinc	Category 1	-	-

Aspiration hazard

Not available.

Information on likely routes of exposure : Routes of entry anticipated: Oral, Inhalation.
Routes of entry not anticipated: Dermal.

Potential acute health effects

Eye contact : Slightly hazardous by the following route of exposure: of eye contact (non-irritant)

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards. However, in compliance with good industrial hygiene practice, exposure to any chemical should be kept to a minimum.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

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SECTION 11: Toxicological information

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Endocrine disrupting properties : Not available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Acute EC50 15 mg/l	Aquatic plants	72 hours	
	Acute EC50 91 mg/l	Daphnia spec. - Daphnia Magna	48 hours	
	Acute LC50 42 mg/l	Fish - Cyprinus carpio	24 hours	
	Acute LC50 42 mg/l	Fish - Cyprinus carpio	96 hours	
	Acute LC50 36 mg/l	Fish	96 hours	
	1,2-benzisothiazol-3(2H)-one	Acute EC50 0,067 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
		Acute EC50 0,11 mg/l	Algae	72 hours
		Acute EC50 0,9893 mg/l Marine water	Crustaceans - Opossum Shrimp	96 hours
		Acute EC50 2,94 mg/l Fresh water	Daphnia spec.	48 hours
		Acute LC50 8 to 13 mg/l	Fish - Alburnus alburnus	96 hours
Acute LC50 2,18 mg/l Fresh water		Fish	96 hours	
Acute LC50 1,6 to 2,8 ppm Fresh water		Fish - Oncorhynchus mykiss	96 hours	
Chronic NOEC 90 mg/l		Aquatic plants - Phaseolus vulgaris	20 days	
Chronic NOEC 1,2 mg/l		Daphnia spec.	21 days	
Chronic NOEC 0,21 mg/l		Fish	28 days	
pyrithione zinc	Chronic NOEL 0,0403 mg/l	Algae	72 hours	
	Acute EC50 0,51 µg/l Marine water	Algae - Thalassiosira pseudonana	96 hours	
	Acute EC50 38 µg/l Fresh water	Crustaceans - Ilyocypris dentifera	48 hours	
	Acute EC50 80 µg/l Fresh water	Crustaceans - Chydorus sphaericus	48 hours	
	Acute EC50 8,25 ppb Fresh water	Daphnia spec. - Daphnia magna	48 hours	
	Acute EC50 61 µg/l Fresh water	Daphnia spec. - Daphnia magna - Nauplii	48 hours	

SECTION 12: Ecological information

4,5-dichloro-2-octyl-2H-isothiazol-3-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute LC50 2,68 ppb Fresh water Chronic EC10 0,36 µg/l Marine water	Fish - Pimephales promelas Algae - Thalassiosira pseudonana	96 hours 96 hours
	Chronic NOEC 2,7 ppb Marine water Acute EC50 18 ppb Marine water	Daphnia spec. - Daphnia magna Algae - Skeletonema costatum	21 days 96 hours
	Acute EC50 30,1 ppb Fresh water Acute LC50 19,8 ppb Fresh water Acute EC50 0,037 mg/l Fresh water	Daphnia spec. - Daphnia magna Fish - Lepomis macrochirus Algae	48 hours 96 hours 48 hours
	Acute EC50 0,16 mg/l Fresh water Acute LC50 0,19 mg/l Fresh water Acute NOEC 0,004 mg/l Marine water Chronic NOEC 0,18 mg/l Chronic NOEC 0,02 mg/l Fresh water	Daphnia spec. Fish Algae Daphnia spec. Fish	48 hours 96 hours 48 hours 21 days 38 days

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	OECD 303A	>90 % - Readily - 1 days	-	-
	OECD 301D	>60 % - Readily - 28 days	-	-
	-	<50 % - 10 days	-	-

Conclusion/Summary : This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,4,7,9-tetramethyldec-5-yne-4,7-diol	-	-	Not readily
1,2-benzisothiazol-3(2H)-one	-	-	Readily
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2,4,7,9-tetramethyldec-5-yne-4,7-diol	2,8	-	low
1,2-benzisothiazol-3(2H)-one	0,64	-	low
pyrithione zinc	0,9	11	low
4,5-dichloro-2-octyl-2H-isothiazol-3-one	3,59	-	low
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	-0.83 to 0.75	-	low

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SECTION 12: Ecological information

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12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Nonvolatile liquid.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties : No known significant effects or critical hazards.

12.7 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-

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SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : IIA/g. Primers. EU limit value for this product : 30g/l (2010.)
This product contains a maximum of 30 g/l VOC.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EC)

Not listed.

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

Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

United Kingdom: Great Britain

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SECTION 15: Regulatory information

References : EH40/2005 Workplace exposure limits
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878
REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

International regulations

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name	Ingredient name	Status
Not listed.		

CN code : 3209 10 00 00

Inventory list

Australia : At least one component is not listed.
Canada : At least one component is not listed.
China : Not determined.
Europe : All components are listed or exempted.
Japan : **Japan inventory (CSCL)**: At least one component is not listed.
Japan inventory (ISHL): Not determined.
New Zealand : At least one component is not listed.
Philippines : At least one component is not listed.
Republic of Korea : At least one component is not listed.
Taiwan : At least one component is not listed.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

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

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

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SECTION 16: Other information

Classification	Justification
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

United Kingdom: Great Britain

Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H330	Fatal if inhaled.
H360D	May damage the unborn child.
H372	Causes 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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - 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

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Notice to reader

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer.

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SECTION 16: Other information

Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.