



SAFETY DATA SHEET

Falu Rödfärg Wood Facade, Knots and Trim (several colours)

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

1.1 Product identifier

Product name : Falu Rödfärg Wood Facade, Knots and Trim (several colours)
Product code : Not available.
Product type : Liquid.
Other means of identification : Not available.

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

Product use : Not available.
Area of application : Consumer applications, Professional applications.

Identified uses	
Outdoor painting (Consumer, Professional).	
Uses advised against	Reason
Indoor use	-

1.3 Details of the supplier of the safety data sheet

Stora Kopparbergs Bergslags AB, Falu Rödfärg
Krongårdsvägen 6
791 61 Falun
Sweden

Telephone no.: +4623-782325

e-mail address of person responsible for this SDS : info@falurodfarg.com

1.4 Emergency telephone number

Supplier

Telephone number : 3E Global Incident Response Hotline: +44 20 35147487
Code: 334957

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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.

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SECTION 2: Hazards identification

2.2 Label elements

Signal word	: No signal word.
Hazard statements	: H412 - Harmful to aquatic life with long lasting effects.
<u>Precautionary statements</u>	
General	: P102 - Keep out of reach of children.
Prevention	: P280 - Wear eye or face protection. P273 - Avoid release to the environment. P260 - Do not breathe vapour or spray.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Contains 3-iodo-2-propynyl butylcarbamate and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
<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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤15	Not classified.	[2]
Talc , not containing asbestiform fibres	EC: 238-877-9 CAS: 14807-96-6	≥10 - ≤25	Not classified.	[2]
Cobalt aluminate blue spinel	EC: 310-193-6 CAS: 1345-16-0	≤10	Not classified.	[2]
chromium (III) oxide	REACH #: 01-2119433951-39 EC: 215-160-9	≤4	Not classified.	[2]

SECTION 3: Composition/information on ingredients

zinc oxide	CAS: 1308-38-9 REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	<2	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
3-iodo-2-propynyl butylcarbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	<0.15	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
1,2-benzisothiazol-3(2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1]

% by weight

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

SECTION 4: First aid measures

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	: No specific data.
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 dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: 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 British standard BS EN 469 will provide a basic level of protection for chemical incidents.

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 spilled material. 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".

SECTION 6: Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

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

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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 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. Store the mixture under frost-free conditions.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 mg/m ³ . Form: total inhalable.
Talc , not containing asbestiform fibres	TWA 8 hours: 4 mg/m ³ . Form: respirable. EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 1 mg/m ³ . Form: respirable dust.
Cobalt aluminate blue spinel	EH40/2005 WELs (United Kingdom (UK), 1/2020) [cobalt and cobalt compounds] Carc. Inhalation sensitiser. TWA 8 hours: 0.1 mg/m ³ (as Co).
chromium (III) oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020) [chromium (III) compounds] TWA 8 hours: 0.5 mg/m ³ (as Cr). EU OEL (Europe, 1/2022) [Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)] TWA 8 hours: 2 mg/m ³ .

Biological exposure indices

None known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
titanium dioxide	DNEL - General population - Long term - Inhalation 28 µg/m ³ <u>Effects</u> : Local DNEL - Workers - Long term - Inhalation 170 µg/m ³ <u>Effects</u> : Local
Talc , not containing asbestiform fibres	DNEL - General population - Short term - Inhalation 1.08 mg/m ³ <u>Effects</u> : Systemic DNEL - General population - Long term - Inhalation 1.08 mg/m ³ <u>Effects</u> : Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Inhalation

1.8 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

1.8 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

2.16 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.16 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

2.27 mg/cm²

Effects: Local

DNEL - Workers - Short term - Inhalation

3.6 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

3.6 mg/m³

Effects: Local

DNEL - Workers - Long term - Dermal

4.54 mg/cm²

Effects: Local

DNEL - General population - Long term - Dermal

21.6 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

43.2 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

160 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long

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SECTION 8: Exposure controls/personal protection

	term - Oral 160 mg/kg bw/day <u>Effects:</u> Systemic
3-iodo-2-propynyl butylcarbamate	DNEL - Workers - Long term - Inhalation 0.023 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Short term - Inhalation 0.07 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Short term - Inhalation 1.16 mg/m ³ <u>Effects:</u> Local DNEL - Workers - Long term - Inhalation 1.16 mg/m ³ <u>Effects:</u> Local DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects:</u> Systemic
1,2-benzisothiazol-3(2H)-one	DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 1.2 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 6.81 mg/m ³ <u>Effects:</u> Systemic

PNECs

Product/ingredient name

Result

SECTION 8: Exposure controls/personal protection

zinc oxide

Fresh water

20.6 µg/l

Marine water

6.1 µg/l

Fresh water sediment

117.8 mg/kg

Marine water sediment

56.5 mg/kg

Soil

35.6 mg/kg

Sewage Treatment Plant

100 µg/l

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. 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

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: Respiratory protection should be used when there is a risk of inhalation, for example during spray painting or brushing.

SECTION 8: Exposure controls/personal protection

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

Appearance

Physical state : Liquid.
Colour : Various
Odour : Not available.
Odour threshold : Not available.
Melting point/freezing point : Not available.
Initial boiling point and boiling range : Not available.
Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits : Not available.
Flash point :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
Linseed oil	221.85	431.3				

Ingredient name	°C	°F	Method
Linseed oil	342.85	649.1	

Auto-ignition temperature : Not available.

Decomposition temperature : 8 to 9

pH : Dynamic (room temperature): Not available.
 Kinematic (room temperature): Not available.
 Kinematic (40°C): Not available.

Viscosity :

Media	Result
water	Soluble

Solubility(ies) : Not applicable.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Water	17.5	2.3		92.258	12.3	

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

Vapour pressure : Not available.

Evaporation rate : Not available.

Relative density : Not available.

Vapour density : Not available.

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SECTION 9: Physical and chemical properties

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Physical/chemical properties comments : No additional information.

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.
Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Strong oxidising materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	
titanium dioxide	Rat - Oral - LD50 >5000 mg/kg	
	Rat - Inhalation - LC50 Dusts and mists >6.82 mg/l [4 hours]	
Cobalt aluminate blue spinel	Rat - Oral - LD50 >10000 mg/kg	
	Rat - Male, Female - Inhalation - LC50 Dusts and mists >5.06 mg/l [4 hours]	OECD [Acute Inhalation Toxicity - Acute Toxic Class (ATC) Method]
chromium (III) oxide	Rat - Male, Female - Oral - LD50 >5000 mg/kg	OECD 401 [Acute Oral Toxicity]

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	Rat - Male, Female - Inhalation - LC50 Dusts and mists >5.41 mg/l [4 hours]	OECD 403 [Acute Inhalation Toxicity]
zinc oxide	Rat - Male, Female - Dermal - LD50 >2000 mg/kg	OECD [Acute Dermal Toxicity]
	Rat - Inhalation - LC50 Dusts and mists >5.7 mg/l [4 hours]	OECD 403 [Acute Inhalation Toxicity]
3-iodo-2-propynyl butylcarbamate	Rat - Oral - LD50 1470 mg/kg	Toxic effects: Behavioral - Ataxia Liver - Other changes Kidney, Ureter, and Bladder - Other changes
	Rabbit - Male, Female - Dermal - LD50 >2000 mg/kg	EPA [OPP 81-2 Acute Dermal Toxicity]
	Rat - Inhalation - LC50 Dusts and mists 0.68 mg/l [4 hours]	
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50 1020 mg/kg	

Conclusion/Summary [Product] : Not available.

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)
Falu Rödfärg Wood Facade, Knots and Trim (several colours)	N/A	N/A	N/A	N/A	545.4
3-iodo-2-propynyl butylcarbamate	500	N/A	N/A	N/A	0.67
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21

Skin corrosion/irritation

Product/ingredient name	Result	
zinc oxide	Rabbit - Skin - Not irritant	OECD 404 [Acute Dermal Irritation/Corrosion]

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result	
zinc oxide	Rabbit - Eyes - Not irritant	OECD [Acute Eye Irritation/Corrosion]

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name

zinc oxide

Result

Guinea pig - skin

Result: Not sensitizing

OECD 406 [Skin Sensitization]

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name

3-iodo-2-propynyl butylcarbamate

Result

STOT RE 1, H372 (larynx)

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact

: No known significant effects or critical hazards.

Inhalation

: No known significant effects or critical hazards.

Skin contact

: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

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

Conclusion/Summary [Product] : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Result

titanium dioxide

Acute - LC50 - Marine water

Effect: Mortality

Fish - Mummichog - *Fundulus*

heteroclitus

>1000 mg/l [96 hours]

zinc oxide

Acute - LC50 - Fresh water

Effect: Mortality

Fish - Rainbow trout, donaldson trout -

US EPA

Oncorhynchus mykiss

Weight: 0.78 g

1.1 ppm [96 hours]

Acute - EC50 - Fresh water

Effect: Intoxication

Daphnia - Water flea - *Daphnia magna*

OECD

- Neonate

Age: <24 hours

0.481 mg/l [48 hours]

Acute - IC50 - Marine water

Effect: Population

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	Algae - Diatom - <i>Skeletonema costatum</i> 1.85 mg/l [96 hours]	ASTM, OECD
	Chronic - NOEC - Fresh water Daphnia - <i>Daphnia magna</i> 0.04 mg/l [21 days]	OECD [Daphnia Magna Reproduction Test]
3-iodo-2-propynyl butylcarbamate	Acute - LC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> 40 ppb [48 hours]	<u>Effect</u> : Mortality
	Acute - LC50 - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling) <u>Size</u> : 2.4 cm; <u>Weight</u> : 0.31 g 67 µg/l [96 hours]	<u>Effect</u> : Mortality
	Chronic - NOEC Fish - Fathead minnow - <i>Pimephales promelas</i> 8.4 ppb [35 days]	<u>Effect</u> : Growth US EPA
	Chronic - NOEC - Fresh water Daphnia - <i>Daphnia magna</i> 0.0499 mg/l [21 days]	OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Acute - EC50 - Fresh water Algae - <i>Desmodesmus subspicatus</i> 0.022 mg/l [72 hours]	OECD [Alga, Growth Inhibition Test]
	Acute - NOEC - Fresh water Algae - <i>Desmodesmus subspicatus</i> 0.0046 mg/l [72 hours]	OECD [Alga, Growth Inhibition Test]
1,2-benzisothiazol-3(2H)-one	Acute - LC50 - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Size</u> : 46 mm 167 ppb [96 hours]	<u>Effect</u> : Mortality US EPA
	Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 97 ppb [48 hours]	<u>Effect</u> : Intoxication US EPA
	Acute - EC50 Algae - <i>Pseudokirchneriella subcapitata</i> 0.15 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	Acute - NOEC Algae - <i>Pseudokirchneriella subcapitata</i> 0.0403 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]

SECTION 12: Ecological information

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name	Result	
3-iodo-2-propynyl butylcarbamate	5% [28 days] - Not readily	OECD [Ready Biodegradability - CO2 Evolution Test]
1,2-benzisothiazol-3(2H)-one	Aerobic 85% [63 days] - Not readily	OECD 301C [Ready Biodegradability - Modified MITI Test (I)]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-iodo-2-propynyl butylcarbamate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
zinc oxide	-	28960	High
3-iodo-2-propynyl butylcarbamate	2.81	-	Low
1,2-benzisothiazol-3(2H)-one	0.7	-	Low

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Talc , not containing asbestiform fibres	No	No	No	No	No	No	No
Cobalt aluminate blue spinel	No	No	No	No	No	No	No
chromium (III) oxide	No	No	No	No	No	No	No
zinc oxide	No	No	No	No	No	No	No
3-iodo-2-propynyl butylcarbamate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	No	N/A	N/A	No	N/A	N/A	N/A

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

SECTION 13: Disposal considerations

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 : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cobalt aluminate blue spinel, zinc oxide)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

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.

Falu Rödfärg Wood Facade, Knots and Trim (several colours)

SECTION 14: Transport information

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
UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Falu Rödfärg Wood Facade, Knots and Trim (several colours)	≥90	3

Labelling : Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Cobalt aluminate blue spinel	EH40/2005 WELs	cobalt and cobalt compounds	Carc	-

EU regulations

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

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

SECTION 15: Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

Falu Rödfärg Wood Facade, Knots and Trim (several colours)

SECTION 16: Other information

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
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.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications

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 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
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

Date of issue/ Date of revision : 05/05/2026

Date of previous issue : No previous validation

Version : 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.