

SAFETY DATA SHEET

Fliesen Fix Grau

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

1.1 Product identifier

Product name

: Fliesen Fix Grau

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

Identified uses	
Professional use Consumer use	
Uses advised against	
None	

Product use

: Product for surface preparation of buildings surfaces. Use in accordance with directions on the product label

1.3 Details of the supplier of the safety data sheet

Akzo Nobel Coatings GmbH Aubergstrasse 7 A-5161 Elixhausen Telefon: +43 (0)810 / 500 129 Telefax: +43 (0)662 / 489 89 11 www.molto.at e-mail address of person : sdbinfo@akzonobel.com responsible for this SDS

1.4 Emergency telephone number

 National advisory body/Poison Center

 Telephone number
 : +43 1 406 43 43

 Supplier

 Telephone number
 : Vergiftungsinformationszentrale +43/1/406 43 43 (24 Std./Tag, jeden Tag)



Fliesen Fix Grau

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]

STOT RE 2, H373

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

Hazard pictograms



Signal word	:	Warning
Hazard statements	:	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements		
General	:	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	P260 - Do not breathe vapor.
Response	:	P314 - Get medical advice or attention if you feel unwell.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Crystalline Silica, respirable part in whole product, <10µm
Supplemental label elements	:	Contains 3-iodo-2-propynyl butylcarbamate, 1,2-benzisothiazol-3(2H)-one and CMIT/ MIT(3:1). May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Yes, 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.



Fliesen Fix Grau

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Crystalline Silica, respirable part in whole product, <10µm	EC: 238-878-4 CAS: 14808-60-7	<10	STOT RE 1, H372 (inhalation)	-	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
IPBC	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.1	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 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
bronopol (INN)	EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8	≤0.1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 10	[1]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5	<0.05	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l Skin Sens. 1, H317: $C \ge 0.05\%$ M [Acute] = 10	[1]
CMIT/MIT(3:1)	REACH #: 01-2120764691-48 EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	≤0.0014	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l Skin Corr. 1C, H314: C $\geq 0.6\%$ Skin Irrit. 2, H315: $0.06\% \leq C < 0.6\%$ Eye Dam. 1, H318: $C \geq 0.6\%$ Eye Irrit. 2, H319: $0.06\% \leq C < 0.6\%$ Skin Sens. 1, H317: $C \geq 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1] [2]
Date of issue/Date of revision	: 9-2-2024	l	Version :1	<u> </u>	<u> </u>
				Akzol	

SECTION 3: Composition/information on ingredients See Section 16 for
the full text of the H
statements declared
above.

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.

<u>Type</u>

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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 if easy to do. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
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 following exposure or if feeling unwell. 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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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 following exposure or if feeling unwell. 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.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

Date of issue/Date of revision	: 9-2-2024	Version :1	
Date of previous issue	: No previous validation	4/19	Akzo



SECTION 4: First aid measures

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 3-iodo-2-propynyl butylcarbamate, 1,2-benzisothiazol-3(2H)-one, CMIT/MIT(3:1). May produce an allergic reaction.

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 an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

• •p•••	
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.

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
 For emergency responders
 If specialized 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".

Date of issue/Date of revision	: 9-2-2024	Version :1
Date of previous issue	: No previous validation	5/19



SECTION 6: Accidental release measures

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

6.3 Methods and materials 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 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 spilled 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). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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 Crystalline Silica, respirable part in whole product, <10µm</td> Regulation on Limit Values - MAC (Austria, 4/2021). [Quarzfeinstaub] AMV: 0.05 mg/m³ Form: respirable dust CMIT/MIT(3:1) Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitizer. TWA: 0.05 mg/m³ 8 hours. 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

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

Product/ingredient name	туре	Exposure	Value	Population	Effects
IPBC	DNEL	Long term	0.023 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term	0.07 mg/m ³	Workers	Systemic
		Inhalation	Ũ		
	DNEL	Short term	1.16 mg/m ³	Workers	Local
		Inhalation	, C		
	DNEL	Long term	1.16 mg/m ³	Workers	Local
		Inhalation	, C		
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
bropopol (ININI)	DNEL	Short term Dermal	0.004 mg/	General	Local
bronopol (INN)	DNEL	Short term Derma	cm^2	population	LUCAI
	DNEL	Long term Dermal	0.004 mg/	General	Local
	DNEL	Long term Derma	0.004 mg/	population	LUCAI
	DNEL	Short term Dermal	0.008 mg/	Workers	Local
	DINLL		cm ²	WUIKEIS	LUCAI
	DNEL	Long term Dermal	0.008 mg/	Workers	Local
	DINEL	Long term Derma	cm ²	Workers	Local
	DNEL	Long term Oral	0.18 mg/	General	Systemic
	DITE	Long tonin ordi	kg bw/day	population	Cyclonic
	DNEL	Short term Oral	0.5 mg/kg	General	Systemic
	0.122		bw/day	population	eyetenne
	DNEL	Short term	0.6 mg/m^3	General	Local
	0.122	Inhalation	0.0 mg/m	population	Local
	DNEL	Long term	0.6 mg/m ³	General	Systemic
		Inhalation	ere	population	-)
	DNEL	Long term Dermal	0.7 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	1.8 mg/m ³	General	Systemic
		Inhalation	5	population	,
				F - F	
e of issue/Date of revision	: 9-2-2024		Version	:1	
e of previous issue	: No previous va	lidation	7/19		AkzoNob

		Fliesen Fix Grau			
SECTION 8: Exposure cont	rols/p	personal prote	ction		
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	2.5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	2.5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	3.5 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	10.5 mg/m ³	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m³		Systemic
CMIT/MIT(3:1)	DNEL	Long term Inhalation	0.02 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.02 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m ³		Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
vinyl acetate	Fresh water	0.016 mg/l	Assessment Factors
-	Marine water	0.002 mg/l	Assessment Factors
	Sewage Treatment Plant	6 mg/l	Assessment Factors
	Fresh water sediment	0.067 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.007 mg/kg dwt	Equilibrium Partitioning
	Soil	0.004 mg/kg dwt	Equilibrium Partitioning
acrylic acid	Fresh water	0.003 mg/l	Assessment Factors
	Marine water	0.3 µg/l	Assessment Factors
	Sewage Treatment Plant	0.9 mg/l	Assessment Factors
	Fresh water sediment	0.024 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.002 mg/kg dwt	Equilibrium Partitioning
	Soil	1 mg/kg dwt	Assessment Factors
	Secondary Poisoning	30 mg/kg	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Date of issue/Date of revision	: 9-2-2024	Version : 1	
Date of previous issue	: No previous validation	8/19	AkzoNobel

2020/070 - Austria	Fliesen Fix Grau
SECTION 8: Exposu	re controls/personal protection
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.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	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.
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. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
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

<u>Appearance</u>		
Physical state	: Liq	uid.
Color	: Wł	nite.
Odor	: Ch	aracteristic.
Odor threshold	: No	t available.
Melting point/freezing point	: No	t available.
Boiling point, initial boiling point, and boiling range	: 100	0°C (212°F)
Flammability	: No	t available.
Lower and upper explosion limit	: No	t available.
Flash point	: No	t available.

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Auto-ignition temperature

Ingredient name	°C	°F	Method
glyoxal	285	545	DIN 51794
2-(2-butoxyethoxy)ethyl acetate	290	554	
Propane-1,2-diol, propoxylated	305	581	EU A.15

Decomposition temperature : Not available.

рН	: 8 [Conc. (% w/w): 100%] [DIN EN 1262]
Viscosity	 Kinematic (room temperature): 6249 mm²/s [DIN EN ISO 3219] Kinematic (40°C): Not applicable. [DIN EN ISO 3219]
Solubility(ies)	:

Solubility(ies)

Media		Result
cold wate	er	Soluble [OESO (TG 105)]

Partition coefficient: n-octanol/ : Not applicable.

water

Vapor pressure

	V	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
vinyl acetate	84.76	11.3					
Propan-2-ol	33	4.4					
glyoxal	15.15	2	EU A.4				
Relative density	: 1.63	8			•	•	
Vapor density	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					
Percentage of particles with aerodynamic diameter ≤ 10 µm							



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.		
SECTION 11: Taxiaalagiaal information			

SECTION 11: Toxicological information

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 3-iodo-2-propynyl butylcarbamate, 1,2-benzisothiazol-3(2H)-one, CMIT/MIT(3:1). May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
IPBC	LD50 Oral	Rat	1470 mg/kg	-
bronopol (INN)	LC50 Inhalation Dusts and	Rat	800 mg/m ³	4 hours
	mists			
	LD50 Dermal	Mouse	4750 mg/kg	-
	LD50 Dermal	Rat	64 mg/kg	-
	LD50 Intraperitoneal	Mouse	32.8 mg/kg	-
	LD50 Intraperitoneal	Mouse	15500 µg/kg	-
	LD50 Intraperitoneal	Rat	22 mg/kg	-
	LD50 Intraperitoneal	Rat	26 mg/kg	-
	LD50 Intravenous	Mouse	48 mg/kg	-
	LD50 Intravenous	Rat	37400 µg/kg	-
	LD50 Oral	Mouse	270 mg/kg	-
	LD50 Oral	Mouse	194 mg/kg	-
	LD50 Oral	Rabbit	190 mg/kg	-
	LD50 Oral	Rat	180 mg/kg	-
	LD50 Oral	Rat	267 mg/kg	-
	LD50 Oral	Rat	254 mg/kg	-
	LD50 Oral	Rat	342 mg/kg	-
	LD50 Subcutaneous	Mouse	116 mg/kg	-
e of issue/Date of revision	: 9-2-2024	Version	:1	
e of previous issue	: No previous validation	11/19		AkzoNob

Fliesen Fix Grau

SECTION 11: Toxicological information

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	LD50 Subcutaneous	Rat	170 mg/kg	-
	LD50 Subcutaneous	Rat	200 mg/kg	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Mouse	1150 mg/kg	-
one				
	LD50 Oral	Rat	1020 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Product as-supplied	N/A	N/A	N/A	N/A	496.5
IPBC	500	N/A	N/A	N/A	0.5
bronopol (INN)	500	1100	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	500	N/A	N/A	N/A	0.05
CMIT/MIT(3:1)	100	50	N/A	N/A	0.05

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
bronopol (INN)	Skin - Mild irritant	Rabbit	-	24 hours 500	-	
	Skin - Moderate irritant	Dabbit		mg		
	Skin - Moderate Imtant	Rabbit	-	80 mg	-	
Conclusion/Summary	: Not available.					
<u>Sensitization</u>						
Conclusion/Summary	: Not available.					
<u>Mutagenicity</u>						
Conclusion/Summary	: Not available.					
Carcinogenicity						
Conclusion/Summary	: Not available.					
Reproductive toxicity						
Conclusion/Summary	: Not available.					
<u>Teratogenicity</u>						
Conclusion/Summary	: Not available.					
Specific target organ toxicit	Specific target organ toxicity (single exposure)					
Product/ing	edient name	Category	Ro	ute of T	arget organs	

Product/ingredient name	Category	Route of exposure	Target organs
bronopol (INN)	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 1	inhalation	-
	Category 1	-	Iarynx

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Date of issue/Date of revision	
Date of previous issue	



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SECTION 11: Toxico	logical information		
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.		
Ingestion	: No known significant effects or critical hazards.		
Symptoms related to the phy	sical, 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 effect	ts and also chronic effects from short and long term exposure		
<u>Short term exposure</u>			
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 effe	<u>ects</u>		
Not available.			
Conclusion/Summary	: Not available.		
General	: May cause damage to organs through prolonged or repeated exposure.		
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.		
11.2 Information on other ha	zards		

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.



SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
IPBC	Acute EC50 956 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 0.16 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 500 ppb Fresh water	Crustaceans - Hyalella azteca	48 hours
	Acute LC50 2920 ppb Marine water	Crustaceans - Neomysis mercedis - Adult	48 hours
	Acute LC50 40 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 95 ppb Marine water	Fish - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 100 ppb Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 72 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 67 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 67 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 8.4 ppb	Fish - Pimephales promelas	35 days
bronopol (INN)	Acute EC50 0.02 ppm Fresh water	Algae - Desmodesmus subspicatus	96 hours
	Acute EC50 0.41 ppm Fresh water	Algae - Navicula pelliculosa	96 hours
	Acute EC50 0.22 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.18 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 1.6 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 36 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 11.17 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 41.5 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 20 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 26.4 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1.94 ppm	Fish - Oncorhynchus mykiss	49 days
	Chronic NOEC 1.94 ppm	Fish - Oncorhynchus mykiss	49 days
1 2-benzisothiazol-3(2H)-one	Acute EC50 97 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 2.24 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 3.7 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 1.1 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 2 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 10 to 20 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 540 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 167 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 0.75 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 1.8 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 1.6 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bronopol (INN)	0.18	-	low

Date of issue/Date of revision: 9-2-2024Version: 1Date of previous issue: No previous validation14/19AkzoNobel

SECTION 12: Ecological information

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

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

Not available.

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. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized 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.
Disposal considerations	: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

	Waste code	Waste designation	
	EWC 08 01 12	waste paint and varnish other than those mentioned in 08 01 11	
E	Packaging		
	Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
	Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. 	
S	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 spilled material and runoff and contact with soil, waterways, drains and sewers.	

Date of issue/Date of revision	: 9-2-2024	Version :1	
Date of previous issue	: No previous validation	15/19	AkzoNobel

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN number or ID number	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-
14.3 Transport hazard class(es)	-	-
14.4 Packing group	-	-
14.5 Environmental hazards	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 : Not applicable. according to IMO instruments

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 authorization

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



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SECTION 15: Regulatory information

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Biocidal products regulation

Product/ingredient name	List name	Name on list	Classification	Notes
Crystalline Silica, respirable part in whole product, <10µm	Exposure Limits	Quarzfeinstaub (alveolen-gängiges kristallines Siliziumdioxid)	Carc. C	-

Limitation of the use of : Permitted.

organic solvents

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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 : No Chemical Safety Assessment has been carried out.

Assessment

. No chemical Salety Assessment has been carried

SECTION 16: Other information

Indicates information that has changed from previously issued version.
 Abbreviations and acronyms
 ATE = Acute Toxicity Estimate
 CL P = Classification Labelling and Packaging Regulation (Regulation (FC) No

acronyms	
-	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



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SECTION 16: Other information

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]

Classification	Justification
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

H301		Toxic if swallowed.
H302		Harmful if swallowed.
H310		Fatal in contact with skin.
H312		Harmful 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.
H331		Toxic if inhaled.
H335		May cause respiratory irritation.
H351		Suspected of causing cancer.
H372		Causes damage to organs through prolonged or repeated
11072		exposure.
H373		May cause damage to organs through prolonged or repeated
11373		exposure.
H400		
H400 H410		Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
H410		
EUH071		Toxic to aquatic life with long lasting effects. Corrosive to the respiratory tract.
EUHU/1		
Full text of classifications [<u>CLP/GHS]</u>	
Acute Tox. 2		ACUTE TOXICITY - Category 2
Acute Tox. 3		ACUTE TOXICITY - Category 3
Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Acute 1		AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1		AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2		AQUATIC HAZARD (LONG-TERM) - Category 2
Carc. 2		CARCINOGENICITY - Category 2
Eye Dam. 1		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Skin Corr. 1C		SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1		SKIN SENSITIZATION - Category 1
Skin Sens. 1A		SKIN SENSITIZATION - Category 1A
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		Category 3
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