

SAFETY DATA SHEET

Clear Wood Sealer Part B

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

1.1 Product identifier	
Product name	: Clear Wood Sealer Part B
SDS code	: YVA328

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

Identified uses		
✓rofessional use		
Industrial use		
Consumer use		
	Uses advised against	
All other uses		

Product use

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: Two component coating for interior and exterior use.

1.3 Details of the supplier of the safety data sheet

International Paint Ltd.	International Färg AB
Stoneygate Lane	Holmedalen 3
Felling	Aspereds Industriomrade
Gateshead	SE-424 22 Angered
Tyne and Wear	Sweden
NE10 0JY UK Tel: +44 (0)191 469 6111	Tel: +46 (0) 31 928500
Fax: +44 (0)191 438 3711	Fax: +46 (0) 31 928530

e-mail address of person : sdsfellinguk@akzonobel.com responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

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]

Flam. Liq. 3, H226 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H336

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

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SECTION 2: Hazards identification

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	: Danger
Hazard statements	 F226 - Flammable liquid and vapor. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H336 - May cause drowsiness or dizziness.
Precautionary statements	
General	 ▶ 102 - Keep out of reach of children. ▶ 101 - If medical advice is needed, have product container or label at hand.
Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P284 - Wear respiratory protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling.
Response	 P370 + P378 - In case of fire: Use water spray, dry chemical powder or carbon dioxide to extinguish. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	 P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.
Hazardous ingredients	 2-methoxy-1-methylethyl acetate Benzene, 2,4-diisocyanato-1-methyl-, homopolymer n-butyl acetate 4-methyl-m-phenylene diisocyanate
Supplemental label elements	Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction.



SECTION 2: Hazards identification

Annex XVII - Restriction on the manufacture, placing on the market use of certain dangeror substances, mixtures articles	professional use. and ous
Special packaging req	<u>juirements</u>
Containers to be fitte with child-resistant fastenings	ed : Not applicable.
Tactile warning of da	anger : Yes, applicable.
2.3 Other hazards	
Product meets the crit for PBT or vPvB accor to Regulation (EC) No 1907/2006, Annex XIII	rding vPvB.
Other hazards which o	do : None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Benzene, 2,4-diisocyanato- 1-methyl-, homopolymer	CAS: 26006-20-2	≥25 - ≤50	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥20 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
triethyl orthoformate	EC: 204-550-4 CAS: 122-51-0	≤5	Flam. Liq. 3, H226	-	[1]
4-methyl-m-phenylene diisocyanate	EC: 209-544-5 CAS: 584-84-9 Index: 615-006-00-4	≤0.3	Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412	ATE [Inhalation (dusts and mists)] = 0.05 mg/l Resp. Sens. 1, H334: C ≥ 0.1%	[1]
2-methoxypropyl acetate	EC: 274-724-2 CAS: 70657-70-4 Index: 607-251-00-0	<0.3	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335	-	[1]
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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>

Substance classified with a physical, 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 if easy to do. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. 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.
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 necessary, call a poison center or physician. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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



Clear Wood Sealer Part B

SECTION 4: First aid measures

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.

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

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. 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.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Benzene, 2,4-diisocyanato-1-methyl-, homopolymer, 4-methyl-m-phenylene diisocyanate. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Never use water for extinction.

5.2 Special hazards arising from the substance or mixture

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Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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, pro	tective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".
6.2 Environmental precautions	: Avoid dispersal of spilled 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 materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease 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 vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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 a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

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

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



SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 548 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
Benzene, 2,4-diisocyanato-1-methyl-, homopolymer	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitizer. STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
4-methyl-m-phenylene diisocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitizer. Notes: as NCO STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
procedures atmosphere or of the ventilatio protective equi the following: If the assessmen limit values and atmospheres - of exposure to (Workplace atm for the measure	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory pment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for nt of exposure by inhalation to chemical agents for comparison with d measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
p -butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
		_	bw/day		
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	12 mg/m ³	General	Systemic
		Inhalation	Ū	population	
	DNEL	Long term	35.7 mg/m ³	General	Local
		Inhalation	Ū	population	
	DNEL	Long term	48 mg/m ³	Workers	Systemic
		Inhalation	U		
	DNEL	Short term	300 mg/m ³	General	Local
		Inhalation	Ŭ	population	
	DNEL	Short term	300 mg/m ³	General	Systemic
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SECTION 8: Exposure cont	rols/p	ersonal prote	ction		
	DNEL	Inhalation Long term Inhalation	300 mg/m³	population Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
triethyl orthoformate	DNEL	Long term Inhalation	0.264 mg/ m³	General population	Systemic
	DNEL	Long term Oral	0.61 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.61 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.07 mg/m ³		Systemic
	DNEL	Long term Dermal	1.22 mg/ kg bw/day	Workers	Systemic

PNECs

No PNECs available.

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	The performance or eff	ectiveness of the glove may be red	uced by physical/	
	protection class of 6 (br recommended. Recom When only brief contact (breakthrough time >30 Recommended gloves:	uently repeated contact may occur eakthrough time >480 minutes acc mended gloves: Viton ® or Nitrile, is expected, a glove with protection minutes according to EN374) is re Nitrile, thickness ≥ 0.12 mm. ced regularly and if there is any sig	cording to EN374) is thickness ≥ 0.38 mm. on class of 2 or higher commended.	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard be worn at all times when handling chemical products if a risk assessment in this is necessary. Considering the parameters specified by the glove manufacheck during use that the gloves are still retaining their protective properties. 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 several substances, the protection time of the gloves cannot be accurately estimated.			
Eye/face protection	assessment indicates the gases or dusts. If contained	y eyewear complying with an approved standard should be used when a rissment indicates this is necessary to avoid exposure to liquid splashes, miss or dusts. If contact is possible, the following protection should be worn, s the assessment indicates a higher degree of protection: chemical splashes.		
Hygiene measures	before eating, smoking Appropriate techniques Contaminated work clot contaminated clothing b showers are close to th		nd of the working period ally contaminated clothing he workplace. Wash sh stations and safety	
Individual protection mea	•	piosion-proor venulation equipmer	11.	
2.2 Exposure controls Appropriate engineering controls	ventilation or other engi contaminants below an controls also need to ke	ventilation. Use process enclosur neering controls to keep worker ex y recommended or statutory limits. eep gas, vapor or dust concentratio plosion-proof ventilation equipmer	posure to airborne The engineering ns below any lower	

SECTION 8: Exposure controls/personal protection

		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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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. Wear a respirator conforming to EN140 with type A/P2 filter or better. 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	: Liquid.				
Color	: Colorles	SS.			
Odor	: Solvent				
Odor threshold	: Not ava	ilable.			
Melting point/freezing point	: Not ava	ilable.			
Boiling point, initial boiling point, and boiling range	: <mark>1∕</mark> 26°C (258.8°F)			
Flammability	: Not ava	ilable.			
Lower and upper explosion	: Greates	st known rang	ge: Lower: 0.7% L	Ipper: 25.1% (triethyl orth	oformate)
limit			-		,
limit Flash point	: Closed	cup: 32°C (8	9.6°F) [Pensky-Ma	artens]	,
-	: Closed :	cup: 32°C (8	-	artens]	,
Flash point	: Closed :	cup: 32°C (8 ° C	-	artens] Method	,
Flash point Auto-ignition temperature	: Closed :	· 、	9.6°F) [Pensky-Ma	-	,
Flash point Auto-ignition temperature Ingredient name	: Closed :	°C	9.6°F) [Pensky-Ma	-	,
Flash point Auto-ignition temperature Ingredient name	: Closed : :	°C 333 415	9.6°F) [Pensky-Ma	Method	,
Flash point Auto-ignition temperature Ingredient name Imethoxy-1-methylethyl acetate n-butyl acetate	: : Not ava	°C 333 415	9.6°F) [Pensky-Ma Pr 631.4 779	Method	,

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Kinematic (40°C): 100 mm²/s [DIN EN ISO 3219]

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SECTION 9: Physical and chemical properties

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S	olubility(ies) :	
	Media	Result
	cold water	Not soluble [OECD (TG 105)]

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

Vapor pressure

aerodynamic diameter ≤ 10

μm

	Vapor Pressure at 20°C			۱ ۱	Vapor pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
p≁butyl acetate	11.25	1.5	DIN EN 13016-2				
triethyl orthoformate	3	0.4					
2-methoxy-1-methylethyl acetate	2.7	0.36					
Density	: 1.02	5 g/cm ³ [DII	N EN ISO 2811-1]	•	•	•	
/apor density	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					
Percentage of particles with	า : 🚺						

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	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.				
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing 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 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.

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

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SECTION 11: Toxicological information

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. 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.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Benzene, 2,4-diisocyanato-1-methyl-, homopolymer, 4-methyl-m-phenylene diisocyanate. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-butyl acetate	LD50 Oral	Rat	10768 mg/kg	-
triethyl orthoformate	LD50 Dermal	Rabbit	20 mL/kg	-
	LD50 Oral	Rat	7060 mg/kg	-
4-methyl-m-phenylene diisocyanate	LC50 Inhalation Gas.	Guinea pig	13 ppm	4 hours
	LC50 Inhalation Gas.	Mouse	10 ppm	4 hours
	LC50 Inhalation Gas.	Mouse	10 ppm	4 hours
	LC50 Inhalation Gas.	Rabbit	11 ppm	4 hours
	LC50 Inhalation Gas.	Rat	14 ppm	4 hours
	LC50 Inhalation Gas.	Rat	14 ppm	4 hours
	LD50 Intravenous	Mouse	56 mg/kg	-
	LD50 Oral	Rat	5800 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	20.4
4-methyl-m-phenylene diisocyanate	N/A	N/A	N/A	N/A	0.05

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
p -butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
triethyl orthoformate	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
		Dabbit		mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
4-methyl-m-phenylene	Eyes - Severe irritant	Rabbit	-	mg 100 mg	
diisocyanate	Lyes - Severe Initalit	Rabbit	-	Too mg	-
anooyanato	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rat	-	8 hours 12	-
				mg	
	Skin - Severe irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
-					
<u>Mutagenicity</u>					

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SECTION 11: Toxicological information

Conclusion/Summary	:	Not available.
Carcinogenicity		
Conclusion/Summary	:	Not available.
Reproductive toxicity		
Conclusion/Summary	:	Not available.
Teratogenicity		
Conclusion/Summary	:	Not available.
Specific target organ toxicit	t <u>y (</u> :	<u>single exposure)</u>
-		

Product/ingredient name	Category	Route of exposure	Target organs
Performation of the second	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
4-methyl-m-phenylene diisocyanate	Category 3	-	Respiratory tract irritation
2-methoxypropyl acetate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Information on the likely : Not available. routes of exposure

routes of exposure	
Potential acute health effect	<u>b</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the p	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
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SECTION 11: Toxicological information

Delayed and immediate effects and also 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 effe	<u>ects</u>			
Not available.				
Conclusion/Summary	: Not available.			
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.			

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.

Result	Species	Exposure
Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
Acute LC50 164.5 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 164500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 164500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 32 mg/l Marine water Acute LC50 62000 µg/l Fresh water Acute LC50 164.5 mg/l Fresh water Acute LC50 164500 µg/l Fresh water	Acute LC50 32 mg/l Marine water Acute LC50 62000 µg/l Fresh water Acute LC50 164.5 mg/l Fresh waterCrustaceans - Artemia salina Fish - Danio rerio Fish - Pimephales promelasAcute LC50 164500 µg/l Fresh waterFish - Pimephales promelas

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential



Clear Wood Sealer Part B

SECTION 12: Ecological information

Product/ingredient name LogPow BCF Potential			
Product/ingredient name	LogPow	BCF	Fotential
P-methoxy-1-methylethyl acetate	1.2	-	low
n-butyl acetate triethyl orthoformate	2.3 1.2	-	low low
4-methyl-m-phenylene diisocyanate	3.43	-	low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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. Residues in empty containers should be neutralized with a decontaminant (see section 6). 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 11*	waste paint and varnish conta	waste paint and varnish containing organic solvents or other hazardous substances	
<u>Packaging</u> Methods of disposal		should be avoided or minimized w ycled. Incineration or landfill shoul sible.	
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SECTION 13: Disposal considerations

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.
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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

-			
	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	111	111	
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID	: <u>Tunnel code</u> (D/E)
IMDG	: Emergency schedules F-E, _S-E_

14.6 Special precautions for : 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 IMOinstruments

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 authorization

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: As from August 24 2023 adequate training is required before industrial or professional use.
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
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substanc Not listed.	<u>es (1005/2009/EU)</u>
<u>Prior Informed Consent (P</u>	<u>IC) (649/2012/EU)</u>
Not listed.	
Persistent Organic Polluta Not listed.	<u>nts</u>
Seveso Directive	
This product is controlled un	der the Seveso Directive.
Danger criteria	
Category	
P5c	
Biocidal products regulations International regulations Chemical Weapon Convention Not listed.	on ion List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on F Not listed.	Persistent Organic Pollutants
Rotterdam Convention on F Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol on Not listed.	POPs and Heavy Metals
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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]

Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Eye Irrit. 2, H319	Calculation method	
Resp. Sens. 1, H334	Calculation method	
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H336	Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

-			
Acute Tox. 2 Acute Tox. 4 Aquatic Chronic 3 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 1B Resp. Sens. 1 Skin Irrit. 2 Skin Sens. 1 STOT SE 3		ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 1B RESPIRATORY SENSITIZATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
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SECTION 16: Other information

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IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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