



# SAFETY DATA SHEET

CETOL BL 21 PLUS

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name and/or code** : CETOL BL 21 PLUS

**Manufacturer/Distributor** : AkzoNobel Decorative Coatings  
Wexham Road  
Slough, Berkshire  
United Kingdom, SL2 5DS  
Tel Number: +44 (0) 1753 550000  
Fax Number: +44 (0) 845 372 3421

**e-mail address of person responsible for this SDS** : sikkens.advice@akzonobel.com

**Product use** : Waterborne coating for exterior use.

**Emergency telephone number (with hours of operation)** : Emergency number is - 01753 550000 (24 hours)  
International Sikkens 24 hours emergency number :  
Tel.: +31 71 3086944

## 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

**Additional warning phrases** : Safety data sheet available for professional user on request.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or assigned an occupational exposure limit.

Chemical name	CAS number	%	Number	Classification
2-butoxyethanol	111-76-2	2.5 - 10	203-905-0	Xn; R20/21/22 [1] [2]
propane-1,2-diol See section 16 for the full text of the R-phrases declared above	57-55-6	2.5 - 10	200-338-0	Xi; R36/38 Not classified. [2]

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 and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Workplace exposure limits, if available, are listed in section 8.

## 4. FIRST AID MEASURES

### First-aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do not use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

## 5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.
- Extinguishing media not to be used** : Do not use water jet.
- Special exposure hazards** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

## 6. ACCIDENTAL RELEASE MEASURES

Due to the organic solvents content of the preparation:

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. 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 (see section 13).
- Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
- Methods for cleaning up** : Preferably clean with a detergent. Avoid using solvents.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. HANDLING AND STORAGE

- Handling** : Due to the organic solvents content of the preparation:
- Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.
- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Put on appropriate personal protective equipment (see section 8).
- Never use pressure to empty. Container is not a pressure vessel.
- Always keep in containers made from the same material as the original one.
- Comply with the health and safety at work laws.

## 7. HANDLING AND STORAGE

**Storage** : Store in accordance with local regulations. Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Due to the organic solvents content of the preparation:

Keep away from sources of ignition. Keep away from: oxidising agents, strong alkalis, strong acids.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
2-butoxyethanol	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.</b> STEL: 50 ppm 15 minute(s). TWA: 25 ppm 8 hour(s).
propane-1,2-diol	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 474 mg/m <sup>3</sup> 8 hour(s). Form: Sum of vapour and particulates TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Particulate TWA: 150 ppm 8 hour(s). Form: Sum of vapour and particulates

**Exposure controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### Occupational exposure controls

**Respiratory system** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**Skin and body** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

### **Hands**

**Gloves** : For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber, foil, fluor rubber  
Not recommended: nitrile rubber, neoprene, PVC

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

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

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.

**Eyes** : Use safety eyewear designed to protect against splash of liquids.

**Environmental exposure controls** : Do not allow to enter drains or watercourses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** : Liquid.

**Flash point** : Not applicable.

**Viscosity** : Kinematic: 15,61 cm<sup>2</sup>/s (1561 cSt)

**Relative density** : 1,025

**Solubility** : Easily soluble in the following materials: cold water.

## 10. STABILITY AND REACTIVITY

- Conditions to avoid** : Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products.
- Materials to avoid** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

### Toxicokinetics

- Absorption** : Not available.
- Distribution** : Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapour 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 preparation 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.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Rat	220 mg/kg	-
	LD50 Intravenous	Rat	307 mg/kg	-
	LD50 Oral	Rat	917 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
	LD50 Unreported	Rat	917 mg/kg	-
	LDLo Oral	Rat	1500 mg/kg	-
	TDLo Unreported	Rat	250 mg/kg	-
	TDLo Oral	Rat	500 mg/kg	-
	LC50 Inhalation Vapour	Rat	2900 mg/m <sup>3</sup>	7 hours
	LC50 Inhalation Gas.	Rat	450 ppm	4 hours

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

## 12. ECOLOGICAL INFORMATION

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

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
2-butoxyethanol	Intoxication	Acute EC50 >1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	Mortality	Acute LC50 >1000 mg/L Marine water	Crustaceans - Amphipod - Chaetogammarus marinus - Young - 5 mm	48 hours
	Mortality	Acute LC50 1490000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours
	Mortality	Acute LC50 1250000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
	Mortality	Acute LC50 800000 to 1000000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	Intoxication	Chronic NOEC 1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours

**Conclusion/Summary** : Not available.

### Persistence/degradability

**Conclusion/Summary** : Not available.

**PBT** : Not applicable.

**vPvB** : Not applicable.

## 13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.  
Dispose of according to all federal, state and local applicable regulations.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

## 14. TRANSPORT INFORMATION

**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.

### Sea

**Special provisions** : Not available.

**Marine pollutant** : No.

### Air

**Special provisions** : Not available.

The "viscosity exemption" provisions do not apply to air transport.

**This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.**

**15. REGULATORY INFORMATION**

- EU regulations** : The product is determined as not being dangerous according to the requirements of the DPD.
- Risk phrases** : This product is not classified according to EU legislation.  
S2- Keep out of the reach of children.  
S46- If swallowed, seek medical advice immediately and show this container or label.

**Other EU regulations**

**Additional warning phrases** : Safety data sheet available for professional user on request.

**Additional warning phrases (CEPE)** : Not applicable.

The information in this Safety Data Sheet is required pursuant to Annex II to Regulation (EC) No 1907/2006.

**16. OTHER INFORMATION**

- CEPE Classification** : 2
- Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.  
R36/38- Irritating to eyes and skin.
- Date of issue/Date of revision** : 22-11-2009.
- Version** : 9

**Notice to reader****FOR PROFESSIONAL USE ONLY**

**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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