



SAFETY DATA SHEET

CETOL BL 31

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

- Product name and/or code** : CETOL BL 31
- 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 interior and 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** : Contains reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene). May produce an allergic reaction.
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-(2-ethoxyethoxy)ethanol	111-90-0	2.5 - 10	203-919-7	Xi; R36 [1]
propane-1,2-diol	57-55-6	1 - 2.5	200-338-0	Not classified. [2]
Alkanes, C9-12-iso-	90622-57-4	0 - 1	292-459-0	Xn; R65 [1] R66 R53
See section 16 for the full text of the R-phrases 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 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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

[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, CO₂, 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

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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

Ingredient name

propane-1,2-diol

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007).

TWA: 474 mg/m³ 8 hour(s). Form: Sum of vapour and particulates

TWA: 10 mg/m³ 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

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

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: 15,52 cm²/s (1552 cSt)

Relative density

: 1,031

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 : Not available.

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.

Contains reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene). May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-ethoxyethoxy)ethanol	LD50 Dermal	Rat	6 mL/kg	-
	LD50 Dermal	Rabbit	4200 uL/kg	-
	LD50	Rat	360 ug/kg	-
	Intraperitoneal			
	LD50	Rat	4 g/kg	-
	Intravenous			
	LD50 Oral	Rat	7500 mg/kg	-
	LD50 Oral	Rat	5500 uL/kg	-
	LD50	Rat	6 g/kg	-
	Subcutaneous			
LD50 Unreported	Rat	7500 mg/kg	-	
Alkanes, C9-12-iso-	LC50 Inhalation	Rat	>5240 mg/m3	4 hours
	Vapour			
	LD50 Dermal	Rabbit	>3200 mg/kg	-
	LD50 Oral	Rat	>10 g/kg	-
Alkanes, C9-12-iso-	LC50 Inhalation	Rat	>12200 mg/m3	4 hours
	Vapour			

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 but contains a substance or substances dangerous for the environment. See section 3 for details.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
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12. ECOLOGICAL INFORMATION

2-(2-ethoxyethoxy)ethanol	Mortality	Acute LC50 21400000 to 23900000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 0,44 g	96 hours
	Mortality	Acute LC50 20800000 to 27500000 ug/L Fresh water	Fish - Goldfish - Carassius auratus - 0,92 g	96 hours
	Mortality	Acute LC50 15200000 to 18700000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - 0,23 g	96 hours
	Mortality	Acute LC50 13900000 to 16700000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 1,44 g	96 hours
	Mortality	Acute LC50 13400000 to 15700000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0,68 g	96 hours
	Mortality	Acute LC50 12900000 to 15000000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - 0,25 g	96 hours
	Mortality	Acute LC50 >10000000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours
	Mortality	Acute LC50 9650000 to 11800000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 0,35 g	96 hours
	Mortality	Acute LC50 6010000 to 8080000 ug/L Fresh water	Fish - Channel catfish - Ictalurus punctatus - 0,72 g	96 hours
	Mortality	Acute LC50 4670000 to 6010000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 0 to 24 hours	48 hours
Mortality	Acute LC50 3340000 to 5280000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 0 to 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.

