



SAFETY DATA SHEET

CETOL BL PRIMER

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

Product name and/or code : CETOL BL PRIMER

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 classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R52/53

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
zinc oxide	1314-13-2	0 - 1	215-222-5	N; R50/53 [1]
ammonia, anhydrous	7664-41-7	0 - 1	231-635-3	R10 [1] [2] T; R23 C; R34 N; R50
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

[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

- Personal precautions** : 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** : Keep container tightly closed.
Avoid contact with skin and eyes. Avoid inhalation of vapour, spray or mist. 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.
- 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. Store in a dry, cool and well-ventilated area. 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

ammonia, anhydrous

Occupational exposure limits

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

STEL: 25 mg/m³ 15 minute(s).

STEL: 35 ppm 15 minute(s).

TWA: 18 mg/m³ 8 hour(s).

TWA: 25 ppm 8 hour(s).

Exposure controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Occupational exposure controls

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: 11,97 cm ² /s (1197 cSt)
Relative density	: 1,337
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 causes damage to the following organs: lungs, upper respiratory tract. Contains material which may cause damage to the following organs: cardiovascular system, skin, eye, lens or cornea.

There is no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

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
zinc oxide	LD Intratracheal	Rat	>4979 ug/kg	-
	LD Oral	Rat	>8437 mg/kg	-
	LD50	Rat	>240 mg/kg	-
ammonia, anhydrous	Intraperitoneal			
	LC50 Inhalation	Rat	7040 mg/m ³	30 minutes
	Vapour			
	LC50 Inhalation	Rat	18600 mg/m ³	5 minutes
	Vapour			
	LC50 Inhalation	Rat	9500 ppm	1 hours
	Gas.			
	LC50 Inhalation	Rat	2000 ppm	4 hours

11. TOXICOLOGICAL INFORMATION

Gas.
LC50 Inhalation Rat 17401 ppm 15 minutes
Gas.

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 classified for eco-toxicological properties accordingly. See Sections 3 and 15 for details.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
zinc oxide	-	Acute EC50 24,6 mg/l	Daphnia - Daphnia magna	48 hours
	-	Acute EC50 0,14 mg/l	Daphnia - Daphnia pulex	48 hours
	-	Acute EC50 0,11 mg/l	Daphnia - Ceriodaphnia dubia	48 hours
	Intoxication	Acute EC50 >1000 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute IC50 0,17 mg/l	Algae - Selenastrum capricornutum	72 hours
	-	Acute LC50 0,17 mg/l	Fish - Thymallus articus	96 hours
	-	Acute LC50 0,41 mg/l	Fish - Pimephales promelas	96 hours
	-	Acute LC50 9,71 mg/l	Fish - Cyprinus carpio	96 hours
	-	Acute LC50 1,1 mg/l	Fish - Oncorhynchus Mykiss	96 hours
	Mortality	Acute LC50 1,1 to 2,5 ppm Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss	96 hours
-	Acute LC50 1,02 mg/l	Fish - Oncorhynchus kisutch	96 hours	
Mortality	Acute LC50 >320 ppm Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours	
Mortality	Acute LC50 24600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours	

12. ECOLOGICAL INFORMATION

	Mortality	Acute LC50 2246000 ug/L Fresh water	- <24 hours Fish - Fathead minnow - Pimephales promelas - Neonate - <24 hours	96 hours
ammonia, anhydrous	Mortality	Acute LC50 1,17 mg/L Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
	Mortality	Acute LC50 0,88 mg/L Fresh water	Fish - Orangethroat darter - Etheostoma spectabile	96 hours
	Mortality	Acute LC50 0,74 mg/L Fresh water	Fish - Orangethroat darter - Etheostoma spectabile	96 hours
	-	Acute LC50 8,2 mg/l	Fish - Pimephales promelas	96 hours
	-	Acute LC50 0,097 mg/l	Fish - Onchorhyncus mykiss	24 hours
	Mortality	Acute LC50 14530 to 20600 ug/L Marine water	Crustaceans - San paulo shrimp - Penaeus paulensis - Zoea	48 hours
	Mortality	Acute LC50 11310 to 15480 ug/L Marine water	Crustaceans - Kuruma shrimp - Penaeus japonicus - Zoea	48 hours
	Mortality	Acute LC50 8590 to 9640 ug/L Marine water	Crustaceans - San paulo shrimp - Penaeus paulensis - Post- larvae	48 hours
	Mortality	Acute LC50 5210 to 6040 ug/L Marine water	Crustaceans - Redtail prawn - Penaeus penicillatus - Zoea	48 hours
	Mortality	Acute LC50 4980 to 9070 ug/L Marine water	Crustaceans - Kuruma shrimp - Penaeus japonicus - Nauplii	48 hours
	Mortality	Acute LC50 4180 to 6030 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	Mortality	Acute LC50 4130 to 5100 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex - <24 hours	48 hours
	Mortality	Acute LC50 2710 to 3670 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia reticulata - <4 hours	48 hours
	Mortality	Acute LC50 2500 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus aquaticus - 8 to 10 mm	48 hours

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Mortality	Acute LC50 1600 to 1730 ug/L Fresh water	Fish - Common jollytail - Galaxias maculatus - Juvenile (Fledgling, Hatchling, Weanling) - 42 to 62 mm - 0,4 to 1,3 g	96 hours
Mortality	Acute LC50 1550 ug/L Fresh water	Fish - Common jollytail - Galaxias maculatus - Juvenile (Fledgling, Hatchling, Weanling) - 42 to 62 mm - 0,4 to 1,3 g	96 hours
Mortality	Acute LC50 660 ug/L Fresh water	Fish - common carp - Cyprinus carpio	96 hours
Mortality	Acute LC50 450 to 470 ug/L Fresh water	Fish - Chinook salmon - Oncorhynchus tshawytscha - Underyearling - 1 to 7 g	96 hours
Mortality	Acute LC50 440 ug/L Fresh water	Fish - common carp - Cyprinus carpio	96 hours
Mortality	Acute LC50 380 ug/L Fresh water	Fish - Silver carp - Hypophthalmichthys molitrix - Fingerling	96 hours
Mortality	Acute LC50 300 ug/L Fresh water	Fish - Carp - Hypophthalmichthys nobilis	96 hours
Mortality	Acute LC50 16010 to 21460 ug/L Marine water	Crustaceans - Kuruma shrimp - Penaeus japonicus - Mysis	48 hours
Mortality	Acute LC50 31260 ug/L Marine water	Crustaceans - Redtail prawn - Penaeus penicillatus - 3,58 to 4,75 cm - 0,4 to 0,69 g	48 hours
Mortality	Acute LC50 25400 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
Mortality	Acute LC50 22790 to 32200 ug/L Marine water	Crustaceans - Kuruma shrimp - Penaeus japonicus - Post-larvae	48 hours
Mortality	Acute LC50 14860 to 19140 ug/L Marine water	Crustaceans - Redtail prawn - Penaeus penicillatus - Zoea	48 hours

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

12. ECOLOGICAL INFORMATION

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 : The classification of the product may meet the criteria for a hazardous waste.**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 classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:**Risk phrases** : R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Safety phrases** : S23- Do not breathe vapour or spray.
S51- Use only in well-ventilated areas.
S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.**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** : 7**Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R10- Flammable.
R23- Toxic by inhalation.
R34- Causes burns.
R50- Very toxic to aquatic organisms.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Date of issue/Date of revision** : 22-11-2009.**Version** : 10**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

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16. OTHER INFORMATION

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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