



SAFETY DATA SHEET

CETOL BL OPAQUE

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

Product name and/or code : CETOL BL OPAQUE

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
3-iodo-2-propynyl butylcarbamate	55406-53-6	0 - 1	259-627-5	Xn; R20/22 [1] Xi; R41 N; R50
diuron (ISO)	330-54-1	0 - 1	206-354-4	Carc. Cat. 3; [1] [2] R40 Xn; R22, R48/22 N; R50/53
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

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

diuron (ISO)

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007).
TWA: 10 mg/m³ 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. 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: 32,1 cm²/s (3210 cSt)

Relative density

: 1,246

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, skin.
Contains material which may cause damage to the following organs: cardiovascular system, 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
diuron (ISO)	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	1 g/kg	-
	LD50 Oral	Rat	1017 mg/kg	-
	LD50 Unreported	Rat	>3400 mg/kg	-

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
3-iodo-2-propynyl butylcarbamate	-	Acute EC50 0,16 mg/l	Daphnia	48 hours
	Intoxication	Acute EC50 956 to 1109 ppb Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	Intoxication	Acute EC50 0,16 to 0,17 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute IC50 0,053 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Mortality	Acute LC50 100 ppb Fresh water	Fish - Rainbow trout,donaldson	96 hours

12. ECOLOGICAL INFORMATION

		trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 6 to 8 g	
Mortality	Acute LC50 95 to 100 ppb Marine water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling) - 10 months	96 hours
Mortality	Acute LC50 72 to 83 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
Mortality	Acute LC50 67 to 79 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
Mortality	Acute LC50 40 to 55 ppb Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
Mortality	Acute LC50 2920 to 3520 ppb Marine water	Crustaceans - Opposum Shrimp - Neomysis mercedis - Adult	48 hours
-	Acute LC50 0,072 mg/l	Fish - Oncorhynchus Mykiss	96 hours
Mortality	Acute LC50 130 to 160 ppb Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - FRY - 120 days	96 hours
Mortality	Acute LC50 67 to 89 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 2,4 cm - 0,31 g	96 hours
Mortality	Chronic NOEC <10 ppb Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
Mortality	Chronic NOEC 70 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 6 to 8 g	96 hours
Mortality	Chronic NOEC <1000 ppb	Crustaceans - Opposum Shrimp	48 hours

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		Marine water	- Neomysis mercedis - Juvenile (Fledgling, Hatchling, Weanling) - 10 months	
	Mortality	Chronic NOEC <70 ppb Marine water	Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling) - 10 months	96 hours
	Mortality	Chronic NOEC 120 ppb Fresh water	Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - ALEVIN - 86 days	96 hours
	Mortality	Chronic NOEC 100 ppb Fresh water	Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - FRY - 120 days	96 hours
diuron (ISO)	Intoxication	Acute EC50 8,6 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - 24 hours	48 hours
	Intoxication	Acute EC50 2 to 2,8 mg/L Fresh water	Crustaceans - Water flea - Simocephalus serrulatus - LARVAE	48 hours
	Intoxication	Acute EC50 1,4 to 1,9 mg/L Fresh water	Daphnia - Water flea - Daphnia pulex - LARVAE	48 hours
	-	Acute EC50 1,4 mg/l	Daphnia	48 hours
	Intoxication	Acute EC50 8,4 to 13 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Development	Acute EC50 3044 ug/L Marine water	Crustaceans - Pink shrimp, common prawn - Palaemon serratus - Zoea	48 hours
	Intoxication	Acute EC50 1700 to 2000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Intoxication	Acute EC50 1000 to 1100 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute IC50 0,022 mg/l	Algae - Selenastrum capricornutum	72 hours
	-	Acute LC50 3,2 mg/l	Fish - Cyprinus Caprio	96 hours
	Mortality	Acute LC50 1,5	Fish - Cutthroat	96 hours

12. ECOLOGICAL INFORMATION

	to 2 mg/L Fresh water	trout - Oncorhynchus clarki - 0,7 g	
-	Acute LC50 7,4 mg/l	Fish - Lepomis Macrochirus	96 hours
Mortality	Acute LC50 1,1 to 1,3 mg/L Fresh water	Fish - Lake trout, siscowet - Salvelinus namaycush - Swim-up	96 hours
Mortality	Acute LC50 1,4 to 1,9 ppm Fresh water	Fish - Cutthroat trout - Oncorhynchus clarki	96 hours
Mortality	Acute LC50 1,7 to 2,1 mg/L Fresh water	Fish - Cutthroat trout - Oncorhynchus clarki	96 hours
Mortality	Acute LC50 0,5 ppm Fresh water	Fish - Striped bass - Morone saxatilis - LARVAE - 1 weeks - 51 mm	96 hours
Mortality	Acute LC50 500 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - LARVAE	96 hours
Mortality	Acute LC50 1,4 to 1,9 mg/L Fresh water	Fish - Cutthroat trout - Oncorhynchus clarki - 0,9 g	96 hours
Mortality	Acute LC50 1,4 to 1,7 mg/L Fresh water	Fish - Cutthroat trout - Oncorhynchus clarki - 0,4 g	96 hours
Mortality	Acute LC50 0,71 to 0,96 mg/L Fresh water	Fish - Cutthroat trout - Oncorhynchus clarki - 0,8 g	96 hours
Mortality	Acute LC50 1,2 to 1,5 mg/L Fresh water	Fish - Lake trout, siscowet - Salvelinus namaycush - 0,4 g	96 hours
Mortality	Chronic NEL 1 ppm Marine water	Crustaceans - Brown shrimp - Penaeus aztecus - Adult	48 hours
Development	Chronic NOEC 1000 ug/L Marine water	Crustaceans - Pink shrimp, common prawn - Palaemon serratus - Zoea	48 hours
Population	Chronic NOEC <5 ug/L Fresh water	Aquatic plants - Duckweed - Lemna minor	7 days

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 : 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 : 2

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R40- Limited evidence of a carcinogenic effect.
R22- Harmful if swallowed.
R20/22- Harmful by inhalation and if swallowed.
R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R41- Risk of serious damage to eyes.
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.

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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

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16. OTHER INFORMATION

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.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.

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