

MATERIAL SAFETY DATA SHEET

863 3500

Colormet Adhesion Primer WB



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **COLORMET ADHESION PRIMER WB**
 Company Name: Polycote UK
 Centre Point • Wolsley Road
 Woburn Road Industrial Estate
 Kempston • Beds MK42 7EF
 Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
 Aquatic Chronic 2, H411
 Classification according to Directive 1999/45/EC [DPD]
 The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.
 Classification: R52/53
 Physical/chemical hazards: Highly flammable
 Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard pictograms:

Signal word: No signal word
 Hazard statements: Toxic to aquatic life with long lasting effects.
 Precautionary statements:
 General: Keep out of reach of children. Read label before use. If medical advice is needed, have product container or label at hand.
 Prevention: Avoid release to the environment.
 Response: Collect spillage.
 Storage: Not applicable.
 Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements:
 Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) and 2-ethylhexyl acrylate. May produce an allergic reaction.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name			Classification		
EC No.	CAS No.	%	67/548 EEC	1272/2008 (CLP)	Type
trizinc bis (orthophosphate)					
231-944-3	7779-90-0	2.5 - <25	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
2-(2-butoxyethoxy) ethanol					
203-961-6	112-34-5	1 - <5	Xi; R36	Eye Irrit. 2, H319	[1] [2]
zinc oxide					
215-222-5	1314-13-2	0.25 - <2.5	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
2-ethylhexyl acrylate					
203-080-7	103-11-7	<1	Xi; R37/38 R43	Skin Irrit. 2 H315 Ski Sens. 1, H317 STOT SE 3, H335	[1]

See section 16 for the full text of the R Phrases and 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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 Occupational exposure limits, if applicable, are listed in section 8.

SECTION 4: 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.

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention immediately.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if irregular breathing or respiratory arrest occurs provide artificial respiration or oxygen by trained personnel. Give nothing by mouth.

Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleaner. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed:

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin.
 If splashed in the eyes, the liquid may cause irritation and reversible damage.
 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.
 Contains 2-ethylhexyl acrylate. May produce an allergic reaction.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:
 Recommended: alcohol resistant foam, CO₂, powders, water spray.
 Not to be used: waterjet.

Hazards from the substance or mixture:
 Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal combustion products:
 Decomposition products may include the following materials: carbon dioxide, carbon monoxide, smoke, oxides of nitrogen.

Advice for fire-fighters:
 Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters:
 Appropriate breathing apparatus may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:
 Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

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.

Spillage and cleaning up:
 Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and

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SECTION 6: ACCIDENTAL RELEASE MEASURES – Cont.

place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean, preferably with a detergent, avoid use of solvents. If the product contaminates lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

Handling: 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 mixture. 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.
When spraying and sanding, suitable respiratory protection must be used.

Storage: Store in accordance with local regulations.
Keep away from: oxidising agents, strong alkalis, strong acids. Observe label precautions. Do not store below the following temperature: 0°C (32°F).
Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Occupational exposure limits:**

Ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011)
	STEL: 15 ppm 15 minutes
	TWA: 10 ppm 8 hours
	STEL: 101.2 mg/m ³ 15 minutes
	TWA: 67.5 mg/m ³ 8 hours

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DNELs/DMELs:

Product/ingredient name	Type	Exposure	Value	Population	Effects
trizinc bis(orthophosphate)	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	0.83 mg/kg bw/day	Consumers	Systemic
2-(2-butoxyethoxy)ethanol	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Systemic

	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	50.6 mg/m ³	Consumers	Local
	DNEL	Long term Inhalation	34 mg/m ³	Consumers	Local
	DNEL	Long term Inhalation	34 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Consumers	Systemic
zinc oxide	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	0.83 mg/kg bw/day	Consumers	Systemic

PNECs:

Product/ingredient name	Compartment Detail	Value	Method Detail
trizinc bis(orthophosphate)	Fresh water	48.1 µg/l	–
	Marine	14.2 µg/l	–
	Fresh water sediment	550.2 mg/kg	–
	Marine water sediment	263.9 mg/kg	–
	Soil	249.4 mg/kg	–
	Sewage Treatment Plant	121.4 µg/l	–
2-(2-butoxyethoxy)ethanol	Fresh water	1 mg/l	–
	Marine	0.1 mg/l	–
	Fresh water sediment	4 mg/kg	–
	Marine water sediment	0.4 mg/kg	–
	Sewage Treatment Plant	200 mg/l	–
zinc oxide	Fresh water	25.6 µg/l	–
	Marine	7.6 µg/l	–
	Sewage Treatment Plant	64.7 µg/l	–
	Fresh water sediment	146 mg/kg dw	–
	Marine water sediment	70.3 mg/kg dw	–
	Soil	44.3 mg/kg dw	–

Appropriate engineering 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 vapors below the OEL, suitable respiratory protection must be worn.

Individual protection measures:**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety glasses with side shields. (EN166)

Hand protection:

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The breakthrough time must be greater than the end use time of the product.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Always ensure that gloves are free from defects and that they are stored and used correctly.
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.

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

Recommended: nitrile rubber.

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN 374-3 : 2003

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:

Wear overalls or long sleeved shirt. (EN 467)

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:

In case of insufficient ventilation, wear suitable respiratory equipment. When spraying and sanding, suitable respiratory protection must be used.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Recommended: – organic vapor (Type A) and particulate filter (EN 141).

Environmental exposure controls:

Do not allow to enter drains or watercourses.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Various
Odour:	Faint odour
Initial boiling point:	>100°C (>212°F)
Melting/freezing point:	0°C
Vapour density:	>1 (Air = 1)
Evaporation rate (BuAc=1):	<1 (butyl acetate = 1)
pH:	8 to 9 (Basic)
Viscosity:	Dynamic 900 to 1200 mPa.s
Relative density (kg/L):	1,2 to 1,3

SECTION 10: STABILITY AND REACTIVITY

Chemical stability:

Stable under recommended storage and handling conditions (see section 7).

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

When exposed to high temperatures may produce hazardous decomposition products.

Incompatible materials:

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO₂ and smoke can be generated.

SECTION 11: TOXICOLOGICAL INFORMATION

There are no data available on the mixture itself. See Sections 2 and 3 for details.

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

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.

Contains 2-ethylhexyl acrylate. May produce an allergic reaction.

Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
trizinc bis(orthophosphate)				
	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	–
2-(2-butoxyethoxy)ethanol				
	LD50 Dermal	Rabbit	2700 mg/kg	–
	LD50 Oral	Rat	4500 mg/kg	–
zinc oxide				
	LC50 Inhalation Dusts and mists	Mouse	2500 mg/m ³	4 hours
	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Oral	Rat	>15 g/kg	–
2-ethylhexyl acrylate				
	LD50 Oral	Rat	6700 mg/kg	–

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol					
	Eyes – Moderate irritant	Rabbit	–	24 hours 20 mg	–
	Eyes – Severe irritant	Rabbit	–	20 milligrams	–
zinc oxide					
	Eyes – Mild irritant	Rabbit	–	24 hours 500 mg	–
	Skin – Mild irritant	Rabbit	–	24 hours 500 mg	–
2-ethylhexyl acrylate					
	Eyes – Mild irritant	Rabbit	–	24 hours 500 mg	–
	Eyes – Severe irritant	Rabbit	–	5 milligrams	–
	Skin – Mild irritant	Rabbit	–	500 milligrams	–
	Skin – Moderate irritant	Rabbit	–	24 hours 20 mgs	–
	Skin – Severe irritant	Rabbit	–	24 hours 10 mgs	–

Specific target organ toxicity (single exposure)

Ingredient name	Category	Route of exposure	Target organs
2-ethylhexyl acrylate			
	Category 3	Not applicable.	Respiratory tract irritation

SECTION 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.

Toxicity

Ingredient name	Result	Species	Exposure
trizinc bis(orthophosphate)	Acute EC50 5.7 mg/L	Daphnia spec. – ceriodaphnia dubia	48 hours
	Acute IC50 1.87 mg/L	Algae – selenastrum capricornutum	72 hours
2-(2-butoxyethoxy)ethanol	Acute EC50 2850 mg/L	Daphnia spec.	48 hours
	Acute IC50 >100 mg/L	Algae	96 hours
	Acute LC50 1300000 µg/L Fresh water	Fish – Lepomis macrochirus –	96 hours

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SECTION 12: ECOLOGICAL INFORMATION – Cont.

Persistence and degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-butoxyethoxy)ethanol	–	–	Readily

Bioaccumulative potential

Ingredient name	Log _{P_{ow}}	BCF	Potential
2-(2-butoxyethoxy)ethanol	0.56	–	low
2-ethylhexyl acrylate	3.67	–	low

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of disposal:

The generation of waste should be avoided or minimised 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 nonrecyclable 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: Yes.

Disposal considerations:

Do not allow to enter drains or watercourses.

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.

European waste catalogue (EWC):

The European Waste Catalogue classification of this product, when disposed of as waste, is 08 01 15* aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances.

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the produce know what to do in the event of an accident or spillage.

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	PG*	Additional information
AD/RID Class	3082	Environmentally hazardous substance, liquid, n.o.s. [trizonc bis(orthophosphate)]	9	III	Limited quantity: LQ7 Remarks: (≤ 5L) Limited Quantity – ADR/IMDG 3.4 ADR Tunnel Restriction Code (E) Environmental hazard: Yes
IMDG Class	3082	Environmentally hazardous substance, liquid, n.o.s. [trizonc bis(orthophosphate)] Marine pollutant [trizonc bis(orthophosphate)]	9	III	Emergency schedules (EmS): F-A + S-F Marine pollutant (P) Remarks: (≤ 5L) Limited quantity – ADR/IMDG 3.4.6 Environmental hazard: Yes
IATA Class	3082	Environmentally hazardous substance, liquid, n.o.s. [trizonc bis(orthophosphate)]	9	III	Passenger and Cargo Aircraft Quantity limitation 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation : 450 L Packaging instructions: 964 Limited Quantities – Passenger Aircraft – Quantity limitation: 30 kg Packaging instructions: Y 964 Environmental hazard: Yes

PG* – Packing group

SECTION 15: REGULATORY INFORMATION

EU Regulation (EC) No. 1907/2006 (REACH)

CN Code:

3209 10 00

Other EU Regulations

VOC for Ready-to-Use Mixture:

IIA/i. One-pack performance coatings. EU limit value for this product: 140g/l (2007) 140 g/l (2010). This product contains a maximum of 45g/l VOC.

Europe inventory:

Not determined.

Other EU Regulations

Chemical Safety Assessment:

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

Full text of abbreviated H statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Full text of classifications (CLP/GHS):

Aquatic Acute 1, H400 Aquatic Toxicity (Acute) – Category 1

Aquatic Chronic 1, H400 Aquatic Toxicity (Chronic) – Category 1

Aquatic Chronic 2, H411 Aquatic Toxicity (Chronic) – Category 2

Eye Irrit. 2, H319

Serious Eye Damage/Eye Irritation – Category 2

Skin Irrit. 2, H315

Skin Corrosion/Irritation – Category 2

Skin Sens. 1, H317

Skin Sensitization – Category 1

STOT SE 3, H335

Specific target organ toxicity (single exposure)

[Respiratory tract irritation] – Category 3

Full text of R-phrases referred to in sections 2 and 3 – United Kingdom:

R36 – Irritating to eyes.

R37/38 – Irritating to respiratory system and skin.

R43 – May cause sensitisation by skin contact.

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.

Full text of classifications (DSD/DPD):

Xi – Irritant

N – Dangerous for the environment

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Issue: June 2017

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