

MATERIAL SAFETY DATA SHEET

Colormet Ultra SB



"maintenance made easy"

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

Product Name: **COLORMET ULTRA SB**
 Company Name: Polycote UK
 Centre Point • Wolesey 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]
 Flam. Liq. 3, H226
 STOT SE 3, H336
 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Physical/chemical hazards: Flammable

Human health hazards: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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

Hazard pictograms:

Signal word: Warning

Hazard statements: Flammable liquid and vapour.
 May cause drowsiness or dizziness.
 Harmful to aquatic life with long lasting effects.

Precautionary statements:

General: P102 - Keep out of reach of children.
 P103 - Read label before use.
 P101 - If medical advice is needed, have product container or label at hand.

Prevention: P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
 P271 - Use only outdoors or in a well-ventilated area.
 P261 - Avoid breathing vapour or spray.
 P273 - Avoid release to the environment.

Response: P303 - IF ON SKIN (or hair):
 P361 - Take off immediately all contaminated clothing.
 P353 - Rinse skin with water or shower.
 P312 - Call a doctor if you feel unwell.

Storage: P403 - Store in a well-ventilated place.
 P235 - Keep cool.
 P405 - Store locked up.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements:
 Contains phthalic anhydride and 2-butanone oxime. May produce an allergic reaction.
 Repeated exposure may cause skin dryness or cracking.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS No.	%	Classification	Regulation (EC) No. 1272/2008 (CLP)	Type
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, <2% aromatics	919-857-5	64742-48-9	>10 - <25	Flam Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304; EUH066		[1] [2]

Chemical Name	EC No.	CAS No.	%	Classification	Regulation (EC) No. 1272/2008 (CLP)	Type
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, <2% aromatics	918-481-9	-	>1 - <3	Asp. Tox. 1, H304; EUH066		[1] [2]
1-methoxy-2-propanol	203-539-1	107-98-2	>5 - <10	Flam. Liq. 3, H226; STOT SE 3, H336		[1] [2]
trizinc bis (orthophosphate)	231-944-3	7779-90-0	0,25 - <2,5	Aquatic Acute 1, H400		[1]
2-ethylhexanoic acid, zirconium salt	245-018-1	22464-99-9	>0.3 - <1	Repr. 2, H361fd		[1] [2]
2-butanone oxime	202-496-6	96-29-7	0,1 - <1	Acute Tox. 4, H312; Eye Dam. 1, H318; Skin Sens. 1, H317; Carc. 2, H351		[1]
phthalic anhydride	201-607-5	85-44-9	>0,1 - <0.3	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT SE 3, H335		[1] [2]
zinc oxide	215-222-5	1314-13-2	>0,3 - <1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410		[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 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: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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.

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.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed:

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor 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

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SECTION 4: FIRST AID MEASURES

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.

Ingestion may cause nausea, diarrhoea and vomiting.

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-butanone oxime, phthalic anhydride. May produce an allergic reaction.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:

Recommended: alcohol resistant foam, CO₂, powders, water spray.

Not to be used: water jet.

Hazards from the substance or mixture:

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products:

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

Special protective actions for fire-fighters:

Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Appropriate breathing apparatus may be required.

Additional information:

No unusual hazard if involved in a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:

Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist.

Environmental precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Spillage and cleaning up:

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

SECTION 7: HANDLING AND STORAGE

Handling: 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.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type. 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.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Storage: Keep away from: oxidising agents, strong alkalis, strong acids. Observe label precautions. 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
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, <2% aromatics	EH40/2005 WELs (United Kingdom (UK), 8/2007) STEL: 850 mg/m ³ , (as turpentine (150 ppm)) 15 minute(s). Form: Vapour TWA: 566 mg/m ³ , (as turpentine (100 ppm)) 8 hour(s). Form: Vapour
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 560 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, aromatics (2 - 25%)	EH40/2005 WELs (United Kingdom (UK), 8/2007) STEL: 850 mg/m ³ , (as turpentine (150 ppm)) 15 minutes. Form: Vapour. TWA: 566 mg/m ³ , (as turpentine (100 ppm)) 8 hours. Form: Vapour.
2-ethylhexanoic acid, zirconium salt	EH40/2005 WELs (United Kingdom (UK), 12/2011) STEL: 10 mg/m ³ , (as Zr) 15 minute(s) TWA: 5 mg/m ³ , (as Zr) 8 hour(s)
phthalic anhydride	EH40/2005 WELs (United Kingdom (UK), 12/2011) Skin sensitiser. Inhalation sensitiser. STEL: 12 mg/m ³ 15 minutes. TWA: 4 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	Exposure		Value	Population	Effects
	Type	Exposure			
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	871 mg/m ³	Workers	Systemic
	DNEL	Long term Oral, Dermal	125 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	185 mg/m ³	Consumers	Systemic
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

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.

Type	Exposure	Value	Population	Effects
1-methoxy-2-propanol				
DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
DNEL	Long term Dermal	50.6 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	43.9 mg/m ³	Consumers	Systemic
DNEL	Long term Dermal	18.1 mg/kg bw/day	Consumers	Systemic
DNEL	Long term Oral	3.3 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:

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – United Kingdom (UK)

Product/ingredient name

Compartment Detail	Value	Method Detail
1-methoxy-2-propanol		
Fresh water	10 mg/l	–
Fresh water sediment	41.6 mg/l	–
Marine water sediment	4.17 mg/l	–
Soil	2.47 mg/l	–
Sewage Treatment Plant	100 mg/l	–
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	–
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 dwt	–
Marine water sediment	70,3 mg/kg dwt	–
Soil	44,3 mg/kg dwt	–

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 vapours below the OEL, suitable respiratory protection must be worn.

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 eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields. (EN 166)

Skin/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.

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:

Personnel should wear antistatic clothing made of natural fibres or of hightemperature-resistant synthetic fibres. Wear overalls or long sleeved shirt. (EN 1149-1)

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:

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

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 vapour filter (Type A) (EN 140).

Environmental exposure controls:

Do not allow to enter drains or watercourses.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid
Odour:	Hydrocarbon (Slight)
Colour:	Various
Flash point:	Closed cup: 40°C (104°F) [ISO EN DIN 1523 / DIN 53213-1]
Evaporation rate (BuAc=1):	0.2 (butyl acetate = 1)
Flammability (solid, gas)	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts. Vapour may travel a considerable distance to source of ignition and flash back.
Explosive limits:	Lower: 0.6%, Upper: 8%
Melting/freezing point:	–20°C
Boiling point:	>160°C (>320°F)
Vapour density:	>1 [Air = 1]
Relative density:	0.97 to 1.32
Viscosity:	Dynamic: 1500 to 2200 mPa.s
Solubility:	Partially soluble in acetone
Auto-ignition temperature:	250°C
Explosive properties:	Slightly explosive in presence of open flames and sparks, of heat. Non-explosive in presence of shocks.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability:

Stable under recommended storage and handling conditions.

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.

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SECTION 11: TOXICOLOGICAL INFORMATION

There are no data available on the mixture itself. See sections 2 and 3 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 mixture 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. Ingestion may cause nausea, diarrhea and vomiting.

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-butanone oxime, phthalic anhydride. May produce an allergic reaction.

Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
1-methoxy-2-propanol				
	LC50 Inhalation Vapour	Rat	55000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	13 g/kg	–
	LD50 Oral	Rat	6600 mg/kg	–
trizinc bis(orthophosphate)				
	LC50 Inhalation Dusts & mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	–
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics				
	LC50 Inhalation Vapour	Rat	8500 mg/m ³	4 hours
2-ethylhexanoic acid, zirconium salt				
	LD50 Dermal	Rabbit	>5 g/kg	–
	LD50 Oral	Rat	>5 g/kg	–
2-butanone oxime				
	LC50 Inhalation Vapour	Rat	>4416 mg/l	4 hours
	LD50 Oral	Rat	1530 mg/kg	–
zinc oxide				
	LC50 Inhalation Dusts & mists	Mouse	2500 mg/m ³	4 hours
	LC50 Inhalation Dusts & mists	Rat	>5700 mg/m ³	4 hours
	LD50 Oral	Rat	>15 g/kg	–
phthalic anhydride				
	LD50 Oral	Rat	1530 mg/kg	–

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure
1-methoxy-2-propanol	Eyes – Mild irritant	Rabbit	–	24 hrs 500 mgms
	Skin – Mild irritant	Rabbit	–	500 milligrams
2-butanone oxime	Eyes – Severe irritant	Rabbit	–	100 microliters
phthalic anhydride	Eyes – Moderate irritant	Rabbit	–	24 hrs 50 mgms
zinc oxide	Eyes – Mild irritant	Rabbit	–	24 hrs 500 mgms
	Skin – Mild irritant	Rabbit	–	24 hrs 500 mgms

Sensitization

Ingredient name	Route of exposure	Species	Result
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Skin	Rabbit	Not sensitizing

Specific target organ toxicity (single exposure)

Ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Category 3	Not applicable	Narcotic effects
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects
phthalic anhydride	Category 3	Not applicable	Respiratory tract irritation

Aspiration hazard

Ingredient name	Result
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	ASPIRATION HAZARD – Category 1
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	ASPIRATION HAZARD – Category 1

SECTION 12: ECOLOGICAL INFORMATION

There are no data available on the preparation itself.

Do not allow to enter drains or watercourses.

Aquatic ecotoxicity

Ingredient name	Result	Species	Exposure
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, <2% aromatics	Acute EC50 >1000 mg/l	Algae – Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >1000 mg/l	Daphnia spec.	48 hours
	Acute LC50 >1000 mg/l	Fish	96 hours
	Acute NOEC 100 mg/l	Algae – Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.23 mg/l	Daphnia spec.	–
	Chronic NOEC 0.131 mg/l	Fish	–
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae – Selenastrum capricornutum	7 days
	Acute LC50 23300 mg/l	Daphnia spec.	96 hours
	Acute LC50 20800 mg/l	Fish	96 hours
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute EC50 >1000 mg/l	Daphnia spec.	4 hours
	Acute IC50 >1000 mg/l	Algae	4 hours
	Acute LC50 >1000 mg/l	Fish	4 hours
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-butanone oxime	Acute EC50 750 mg/L	Daphnia spec.	48 hours
	Acute IC50 83 mg/L	Algae	72 hours
	Acute LC50 843000 µg/L Fresh water	Fish – Pimephales promelas	96 hours
phthalic anhydride	Acute EC50 78530 µg/L Fresh water	Algae – Pseudokirchneriella subcapitata	96 hours

Persistence and degradability

Ingredient name	Test	Result	Dose	Inoculum
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, <2% aromatics	OECD 301B	>80% – Readily – 28 days	–	–
	OECD 301F	>80% – Readily – 28 days	–	–
1-methoxy-2-propanol	OECD 301E	96% – Readily – 28 days	–	–
	–	>90% – Readily – 5 days	1.95 gO ₂ /g ThOD	–
	OECD 301C	88 to 92% – Readily – 28 days	–	–

Biodegradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, <2% aromatics	–	100%; <28 day(s)	Readily
1-methoxy-2-propanol	Fresh water <28 days, 5 to 25°C	–	Readily
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, <2% aromatics	Fresh water <28 days 5 to 25°C	80%; <28 day(s)	Readily
2-butanone oxime	–	–	Readily

Bioaccumulative potential

Ingredient name	LogP _{ow}	BCF	Potential
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, <2% aromatics	5 to 6.5	–	High
1-methoxy-2-propanol	-0.49	<100	Low
2-butanone oxime	0.59	5.01	Low
phthalic anhydride	1.6	–	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.

For further information, contact your local waste authority.

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SECTION 13: DISPOSAL CONSIDERATIONS – Cont.

European waste catalogue (EWC):

The European Waste Catalogue classification of this product, when disposed of as waste, is 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances.

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations:

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste.

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spill 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
ADR/RID Class	-	-	-	-	Remarks: Exempted according to 2.2.3.1.5 (Viscous substance exemption).
IMDG Class	1263	Paint	3	III	Emergency schedules (EmS) FE + S-E Marine pollutant: No. Viscous substance exemption: This class 3 material can be considered non hazardous in packagings up to 30 L. Exempted according to 2.3.2.5 (Viscous substance exemption)
IATA Class	1263	Paint	3	III	Passenger and Cargo Aircraft. Quantity limitation: 60 L. Packaging instructions: 355 Cargo Aircraft Only. Quantity limitation: 220L Packaging instructions: 366 Limited Quantities – Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y 344

PG* – Packing group

SECTION 15: REGULATORY INFORMATION

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

CN Code:

3208 10 90

Other EU Regulations

VOC for Ready-to-Use Mixture:

IIA/i. One-pack performance coatings. EU limit value for this product : 600g/l (2007) 500g/l (2010.)

This product contains a maximum of 477 g/l VOC.

Europe inventory:

At least one component is not listed.

Chemical Safety Assessment:

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

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H statements:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications (CLP/GHS)

Acute Tox. 4, H302

ACUTE TOXICITY: ORAL – Category 4

Acute Tox. 4, H312

ACUTE TOXICITY: SKIN – Category 4

Aquatic Acute 1, H400

AQUATIC TOXICITY (ACUTE) - Category 1

Aquatic Chronic 1, H410

AQUATIC TOXICITY (CHRONIC) - Category 1

Aquatic Chronic 3, H412

AQUATIC TOXICITY (CHRONIC) – Category 3

Asp. Tox. 1, H304

ASPIRATION HAZARD – Category 1

Carc. 2, H351

CARCINOGENICITY – Category 2

Eye Dam. 1, H318

SERIOUS EYE DAMAGE/ EYE IRRITATION – Category 1

Flam. Liq. 3, H226

FLAMMABLE LIQUIDS – Category 3

Repr. 2, H361fd

TOXIC TO REPRODUCTION [Fertility and Unborn child] – Category 2

Resp. Sens. 1, H334

RESPIRATORY SENSITIZATION – Category 1

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

STOT SE 3, H336

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] – Category 3

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.

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