

MATERIAL SAFETY DATA SHEET

635 05 +col. ref.

HyGlaze ABC Satin Finish



"maintenance made easy"

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

Product Name: **HYGLAZE ABC SATIN FINISH**
 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]
 Skin Sens. 1B, H317
 Human health hazards: May cause sensitisation by skin contact.
 Environmental hazards: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard pictograms:

Signal word: Warning
 Hazard statements: May cause an allergic skin reaction.
 Toxic to aquatic life with long lasting effects.

Precautionary statements:
 Prevention: Avoid breathing vapour or spray. Wear protective gloves and eye protection: gloves : nitrile rubber – Safety glasses with side shields.
 Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.
 Storage: Not applicable.
 Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS No.	%	Classification	Type
				1272/2008 (CLP)	
propane-1,2-diol	200-338-0	7-55-6	5 - <10	Not classified	[2]
2-(2-butoxyethoxy) ethanol	203-961-6	112-34-5	1 - <5	Eye Irrit. 2, H319	[1] [2]
hydrocarbons, C11-C12, iso-alkanes, < 2% aromatics	292-459-0	90622-57-4	<10	Flam. Liq. 3, H226 Asp. Tox. 1, H304	[1] [2]
hydrocarbons, C12-C13, iso-alkanes, < 2% aromatics	920-901-0	90622-58-5	<10	Asp. Tox. 1, H304	[1] [2]
ammonia	215-647-6	1336-21-6	<5	Skin Corr. 1B, H314; Aquatic Chronic 1, H410 Eye Dam. 1, H318; STOT SE 3, H335; Aquatic Acute 1, H400	[1]
2-octyl-2Hisothiazol-3-one	247-761-7	26530-20-1	<0,05	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	[1]
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	<0,05	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400	[1]

See section 16 for the full text of the 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 immediate medical attention.

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.

Most important symptoms and effects, both acute and delayed:

There are no data available on the preparation itself.

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.

SECTION 5: FIRE FIGHTING MEASURES

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

Recommendations:
 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 waterways.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

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.

Spill: 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). Clean, preferably with a detergent, avoid use of solvents.

SECTION 7: HANDLING AND STORAGE

- Handling:** Keep away from heat, sparks and flame.
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. Do not allow to enter drains or watercourses.
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. Do not store below 0°C (32°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
Keep away from: oxidizing 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.

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

Ingredient name	Exposure limit values
propane-1,2-diol	EH40/2005 WELs (United Kingdom (UK), 8/2007) TWA: 10 mg/m ³ 8 hour(s). Form: Particulate TWA: 474 mg/m ³ 8 hour(s). Form: Sum of vapour and particulates TWA: 150 ppm 8 hour(s). Form: Sum of vapour and particulates
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 8/2007) TWA: 10 ppm 8 hour(s). STEL: 15 mg/m ³ 15 minute(s). TWA: 10 mg/m ³ 8 hour(s). STEL: 15 mg/m ³ 15 minute(s).
hydrocarbons, C11-C12, iso-alkanes, < 2% aromatics	CEFIC-ESIG (Europe, 2/2011). Notes: Recommended by manufacturer TWA: 1200 mg/m ³ , ((177 ppm)) 8 hour(s). Form: Vapour
hydrocarbons, C12-C13, iso-alkanes, < 2% aromatics	CEFIC-ESIG (Europe, 3/2011). Notes: Recommended by manufacturer TWA: 1200 mg/m ³ , ((170 ppm)) 8 hour(s). Form: Vapour

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	Type	Exposure	Value	Population	Effects
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

PNECs:

Product	Type	Compartment Detail	Value	Method Detail
2-(2-butoxyethoxy)ethanol				
PNEC	Fresh water		1 mg/l	-
PNEC	Marine		0.1 mg/l	-
PNEC	Fresh water sediment		4 mg/kg	-
PNEC	Marine water sediment		0.4 mg/kg	-
PNEC	Sewage Treatment Plant		200 mg/l	-

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: Safety glasses with side shields (EN166).

Hands: 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: > 8 hours (breakthrough time): 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: Wear overalls or long sleeved shirt. (EN 467)

Other: 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.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should 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 vapour (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
pH:	8 to 9
Boiling point:	>100°C (>212°F)
Vapour pressure:	1.9 kPa (20°C)
Vapour density:	>1 (Air = 1)
Evaporation rate (BuAc=1):	<1 (butyl acetate = 1)
Viscosity:	Dynamic 4000 to 6500 mPa s
Relative density (kg/L):	1,2 to 1,3
Solubility in water:	Not available.

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: oxidising 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 preparation itself.

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.

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.

Acute Toxicity

Product name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)(ethanol)	LD50 Dermal	Rabbit	2700 mg/kg	–
	LD50 Oral	Rat	4500 mg/kg	–

hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	LC50 Inhalation Vapour	Rat	>5000 mg/m ³	8 hours
	LD50 Oral	Rat	>10 gm/kg	–
hydrocarbons, C12-C13, isoalkanes, < 2% aromatics	LC50 Inhalation Vapour	Rat	>5000 mg/m ³	8 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	–
	LD50 Oral	Rat	>5000 gm/kg	–
ammonia	LC50 Inhalation Vapour	Human/ 30 min	5000 mg/m ³	0,5 hours
	LC50 Inhalation Vapour	Rat	7035 mg/m ³	0,5 hours
2-octyl-2H-isothiazol-3-one	LC50 Inhalation Vapour	Rat	2000 mg/m ³	4 hours
	LD50 Oral	Rat	350 mg/kg	–
	LC50 Inhalation Dusts and mists	Rat	0,27 mg/l	4 hours
1,2-benzisothiazol-3(2H)-one	LD50 Dermal	Rabbit	311 mg/kg	–
	LD50 Dermal	Rat	>2000 mg/kg	–
	LD50 Oral	Rat	248 mg/kg	–
1,2-benzisothiazol-3(2H)-one	LD50 Oral	Rat	1020 mg/kg	–

Irritation/Corrosion

Ingred. name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Eyes – Moderate irritant	Rabbit	24 hours 20 milligrams
	Eyes – Severe irritant	Rabbit	20 milligrams
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	Eyes – Mild irritant	Rabbit	–
	Skin – Mild irritant	Rabbit	–
	Eyes – Severe irritant	Rabbit	250 micrograms
ammonia	Eyes – Severe irritant	Rabbit	0,5 mins, 1 milligrams
	Eyes – Severe irritant	Rabbit	–
2-octyl-2H-isothiazol-3-one	Eyes – Severe irritant	Rabbit	–
	Skin – Mild irritant	Human	48 hours, 5 percent

Sensitisation

Ingred. name	Route of exposure	Species	Result
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	Respiratory	Rat	Not sensitising
	Skin	Rabbit	Not sensitising

SECTION 12: ECOLOGICAL INFORMATION

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

Toxicity

Ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute EC50 2850 mg/L	Daphnia spec.	48 hours
	Acute IC50 >100 mg/l	Algae	96 hours
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	Acute LC50 1300 mg/l Fresh water	Fish – Lepomis macrochirus	96 hours
	Acute EC50 >100 mg/L	Crustaceans - Chaetogammarus marinus	24 hours
	Acute LC50 >2500 mg/l	Fish	96 hours
	Acute LOAEL >1000 mg/l	Fish	96 hours
	Acute NOEC 1000 mg/l	Algae – Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.011 mg/l	Daphnia spec.	21 days
hydrocarbons, C12-C13, isoalkanes, < 2% aromatics	Acute LC50 >2500 mg/l	Fish	96 hours
	Acute LC50 >2000 mg/l	Fish	48 hours
	Acute LOAEL >1000 mg/l	Fish	96 hours
	Acute NOEC 1000 mg/l	Algae – Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 1 mg/l	Daphnia spec.	21 days
	Acute EC50 110 mg/l	Daphnia spec.	48 hours
ammonia	Acute LC50 7 mg/l	Fish	48 hours
	Acute LC50 17 mg/l	Fish	24 hours
	Acute LC50 15000 µg/l Fresh water	Fish – Gambusia affinis – Adult	96 hours
2-octyl-2H-isothiazol-3-one	Acute EC50 0,32 to 0,834 mg/l Fresh water	Daphnia spec. - Daphnia magna	48 hours
	Acute IC50 0,084 mg/l	Algae	72 hours
	Acute LC50 0,14 to 0,202 mg/l Fresh water	Fish – Pimephales promelas	96 hours
	Acute LC50 0,0655 to 0,104 mg/l Fresh water	Fish	96 hours
	Acute EC50 0,067 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 4,4 to 4,9 ppm Fresh water	Daphnia spec. – Daphnia magna	48 hours
1,2-benzisothiazol-3(2H)-one	Acute LC50 1,6 to 2,8 ppm Fresh water	Fish – Oncorhynchus mykiss	96 hours

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SECTION 12: ECOLOGICAL INFORMATION – Cont.**Persistence and degradability**

Ingredient name	Test	Result	Dose	Inoculum
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	-	31.3% - Inherent - 28 days	-	-
2-octyl-2H-isothiazol-3-one	OECD 309	90 % - Readily - 4 days	0,01 to 0,1 mg/l	-
	OECD 303A	>80 % - Readily - 4 days	-	-
	OECD 309	50 % - Readily - 2 days	0,01 to 0,1 mg/l	-
1,2-benzisothiazol-3(2H)-one	OECD 303A	>90 % - Readily - 1 day	-	-

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-butoxyethoxy)ethanol	-	-	Readily
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	-	-	Inherent
hydrocarbons, C12-C13, isoalkanes, < 2% aromatics	-	-	Not readily
ammonia	-	-	Readily
2-octyl-2H-isothiazol-3-one	Fresh water 2 days	-	Readily
1,2-benzisothiazol-3(2H)-one	-	-	Readily

Bioaccumulative potential

Ingredient name	LogP _{ow}	BCF	Potential
2-(2-butoxyethoxy)ethanol	0,56	-	low
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	>5	>100	high
hydrocarbons, C12-C13, isoalkanes, < 2% aromatics	>5	>100	high
ammonia	-1,3	-	low
2-octyl-2H-isothiazol-3-one	2,9	-	low
1,2-benzisothiazol-3(2H)-one	0,64	-	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.

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 spilt 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.

This product is classed as non-hazardous for transport purposes.

SECTION 15: REGULATORY INFORMATION

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

CN Code: 3209 10 00

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

VOC for Ready-to-Use Mixture:

2004/42/EC – IIA/i: 140g/l (2007) 140g/l (2010).

<= 110g/l VOC.

Europe inventory:

Not determined.

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:

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

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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