

1.4 Emergency telephone number

01633 833600 (08.00 - 17.00)

measures)

Emergency telephone number (with hours of operation)

See Section 4 of the safety data sheet (first aid

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Hempel's Polygloss Base

Product identity: 5553934161

Product type: polyurethane paint (base for multi-component product)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Field of application: yacht.

Ready-for-use mixture : 55530 = 55539 2 vol. / 95370 1 vol.

Identified uses: Professional applications, Used by spraying.

1.3 Details of the supplier of the safety data sheet

Company details : Hempel UK Ltd

Berwyn House, The Pavilions

Llantarnam Park

Cwmbran

South Wales NP44 3FD Telephone: 01633 833600 hempel@hempel.com

Date of issue: 2 July 2020

Date of previous issue : No previous validation.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/EYE IRRITATION

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)

Aquatic Chronic 3, H412 LONG-TERM (CHRONIC) AQUATIC HAZARD See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:





Signal word : Warning

Hazard statements: H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention: Avoid breathing vapours, spray or mists. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If skin irritation occurs: Get medical attention.

Storage : Keep cool.

Hazardous ingredients : n-butyl acetate

Supplemental label elements: Contains bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl-1,2,2,6,6-pentamethyl-

4-piperidylsebacate. May produce an allergic reaction. Repeated exposure may cause skin dryness or

cracking.

Special packaging requirements

Containers to be fitted with child-

Not applicable.

resistant fastenings :

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SECTION 2: Hazards identification

Tactile warning of danger: Not applicable.

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result None known.

in classification:

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
4-hydroxy-4-methylpentan- 2-one	REACH #: 01-2119473975-21 EC: 204-626-7 CAS: 123-42-2 Index: 603-016-00-1	≥10 - ≤25	Eye Irrit. 2, H319 -	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥1 - <3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1]
pentane-2,4-dione	REACH #: 01-2119458968-15 EC: 204-634-0 CAS: 123-54-6	<1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331	[1] [2]
bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	EC: 255-437-1 CAS: 41556-26-7	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate	EC: 280-060-4 CAS: 82919-37-7	≤0.3	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1]

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.

Type

Inhalation:

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit, see section 8.
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of 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 breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate

treatment (first aid).

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

 $\label{eq:constraint} \mbox{minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.}$

Remove to fresh air. Keep person warm and at rest. If unconscious, place in recovery position and

seek medical advice.

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.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm

and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so

that vomit will not re-enter the mouth and throat.

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.

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : No known significant effects or critical hazards.

Ingestion: Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: Adverse symptoms may include the following:

nausea or vomiting headache drowsiness/fatigue dizziness/vertigo

dizziness/vertigo unconsciousness No specific data.

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. Treat

symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested

or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Skin contact:

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

Not to be used : waterjet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

mixture:

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or

drain.

Hazardous combustion products: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur

oxides metal oxide/oxides

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.2 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.

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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Product/ingredient name	Exposure limit values		
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018).		
	STEL: 966 mg/m³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	TWA: 724 mg/m³ 8 hours.		
	TWA: 150 ppm 8 hours.		
4-hydroxy-4-methylpentan-2-one	EH40/2005 WELs (United Kingdom (UK), 8/2018).		
	STEL: 362 mg/m³ 15 minutes.		
	STEL: 75 ppm 15 minutes.		
	TWA: 241 mg/m³ 8 hours.		
	TWA: 50 ppm 8 hours.		
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.		
	STEL: 154 mg/m³ 15 minutes.		
	STEL: 50 ppm 15 minutes.		
pentane-2,4-dione	EU OEL (Europe, 2002).		
	TWA: 5 ppm 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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
4-hydroxy-4-methylpentan-2-one	DNEL	Long term Inhalation	66.4 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	9.4 mg/kg bw/day	Workers	Systemic
pentane-2,4-dione	DNEL	Long term Inhalation	84 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	12 mg/kg bw/day	Workers	Systemic

Predicted effect concentrations

Product/ingredient name	Compartment Detail	Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
	Sewage Treatment Plant	35.6 mg/l	-
4-hydroxy-4-methylpentan-2-one	Fresh water	2 mg/l	-
	Marine water	0.2 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	9.06 mg/kg dwt	-
	Marine water sediment	0.91 µg/kg dwt	-
	Soil	0.63 mg/kg dwt	-
pentane-2,4-dione	Fresh water	0.026 mg/l	-
	Marine water	0.0026 mg/l	-
	Fresh water sediment	0.155 mg/kg wwt	-
	Marine water sediment	0.0155 mg/kg wwt	-
	Soil	0.01582 mg/kg wwt	-
	Sewage Treatment Plant	1.32 mg/l	-

8.2 Exposure controls

Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Individual protection measures

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be

worn when soiling is so great that regular work clothes do not adequately protect skin against contact

with the product. Safety eyewear should be used when there is a likelihood of exposure.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking,

using lavatory, and at the end of day.

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: chemical splash goggles.

Hand protection: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The

quality of the chemical-resistant protective gloves must be chosen as a function of the specific

workplace concentrations and quantity of hazardous substances.

Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the

appropriate type. Below listed glove(s) should be regarded as generic advice:

Recommended: Silver Shield / Barrier / 4H gloves, butyl rubber, Viton® May be used: neoprene rubber, nitrile rubber, polyvinyl alcohol (PVA) Short term exposure: polyvinyl chloride (PVC), natural rubber (latex)

Body protection: Personal protective equipment for the body should be selected based on the task being performed and

the risks involved handling this product.

Wear suitable protective clothing. Always wear protective clothing when spraying.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. 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. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.

Environmental exposure controls

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SECTION 8: Exposure controls/personal protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Colour : Blue.

Odour : Solvent-like

pH: Testing not relevant or not possible due to nature of the product.

Melting point/freezing point: Testing not relevant or not possible due to nature of the product.

Boiling point/boiling range: Testing not relevant or not possible due to nature of the product.

Flash point: Closed cup: 35°C (95°F)

Evaporation rate: Testing not relevant or not possible due to nature of the product.

Flammability: Flammable in the presence of the following materials or conditions: open flames, sparks and static

discharge, heat and oxidising materials.

Lower and upper explosive

(flammable) limits:

1.4 - 11.3 vol %

Vapour pressure: 0.009 kPa This is based on data for the following ingredient: polyester polyol

Vapour density: Testing not relevant or not possible due to nature of the product.

Specific gravity: 1.185 g/cm³

Solubility(ies): Easily soluble in the following materials: cold water and hot water.

Partition coefficient (LogKow): Testing not relevant or not possible due to nature of the product.

Auto-ignition temperature: Lowest known value: 355°C (671°F) (butan-1-ol).

Decomposition temperature : Testing not relevant or not possible due to nature of the product.

Viscosity: Testing not relevant or not possible due to nature of the product.

Explosive properties: Explosive in the presence of the following materials or conditions: open flames, sparks and static

discharge and heat.

Oxidising properties: Testing not relevant or not possible due to nature of the product.

9.2 Other information

Solvent(s) % by weight : Weighted average: 40 % Water % by weight : Weighted average: 0 %

VOC content: 474.3 g/l

TOC Content: Weighted average: 295 g/l
Solvent Gas: Weighted average: 0.101 m³/l

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

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SECTION 10: Stability and reactivity

Highly reactive or incompatible with the following materials: oxidising materials. Slightly reactive or incompatible with the following materials: reducing materials.

10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Exposure to component solvent vapor concentrations 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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. 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. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
•	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
4-hydroxy-4-methylpentan-2-one	LD50 Dermal	Rabbit	13500 mg/kg	-
	LD50 Oral	Rat	2520 mg/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
pentane-2,4-dione	LC50 Inhalation Vapour	Rat	5.1 mg/l	4 hours
•	LD50 Dermal	Rat	790 mg/kg	-
	LD50 Oral	Rat	570 mg/kg	-
bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapours) mg/l	Inhalation (dusts and mists) mg/l
Hempel's Polygloss Base n-butyl acetate 4-hydroxy-4-methylpentan-2-one butan-1-ol pentane-2,4-dione	48859.4 10768 2520 790 570	86796.4 13500 3400 790		560.3 24 5.1	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
n-butyl acetate	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
	Eyes - Mild irritant	Rabbit	-	-
	Respiratory - Mild irritant	Rabbit	-	-
4-hydroxy-4-methylpentan-2-one	Eyes - Severe irritant	Rabbit	-	24 hours 100 microliters
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	-	20 milligrams
	Skin - Moderate irritant	Rabbit	-	6 hours 33.6 Mililiters Intermittent

Sensitiser

Product/ingredient name	Route of exposure	Species	Result
bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	skin	Guinea pig	Sensitising

Mutagenic effects

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

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Readily

Readily

Readily

SECTION 11: Toxicological information

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenic effects

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate butan-1-ol	Category 3 Category 3		Narcotic effects Respiratory tract irritation
Dutail-1-01	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
No known data avaliable in our database.			

Aspiration hazard

Product/ingredient name	Result
No known data avaliable in our database.	

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

Sensitisation: Contains bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl-1,2,2,6,6-pentamethyl-

4-piperidylsebacate. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Do not allow to enter drains or watercourses. Harmful to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute EC50 648 mg/l	Algae	72 hours
•	Acute EC50 44 mg/l	Daphnia	48 hours
butan-1-ol	Acute EC50 1328 mg/l	Daphnia	96 hours
	Acute LC50 1.376 mg/l	Fish	96 hours
pentane-2,4-dione	Acute LC50 60.1 mg/l	Fish	96 hours
,	Acute LC50 104 mg/l	Fish	96 hours
bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	Acute EC50 1.68 mg/l	Aquatic plants	72 hours
4-pipendyi) sebacate	Acute LC50 0.97 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours

12.2 Persistence and degradability

4-hydroxy-4-methylpentan-2-one

butan-1-ol

pentane-2,4-dione

Product/ingredient name	Test	Result	Dose	Inoculum	
n-butyl acetate	-	90 % - Readily - 28 days	-	-	
,	OECD 301D Ready Biodegradability - Closed Bottle Test	80 % - Readily - 5 days	-	-	
4-hydroxy-4-methylpentan-2-one	OECD 301A Ready	91.51 % - Readily - 28 days	-	-	
	Biodegradability - DOC Die-Away Test				
outan-1-ol	OECD 301D Ready Biodegradability - Closed Bottle Test	92 % - 20 days	-	-	
pentane-2,4-dione	OECD 301C Ready	>80 % - Readily - 28 days	-	-	
	Biodegradability - Modified MITI Test (I)				
Product/ingredient name	Aquatic half-life	Photolysis	Biode	Biodegradability	
n-butyl acetate	-	-	Readily		

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
n-butyl acetate	2.3	3.1	low
4-hydroxy-4-methylpentan-2-one	-0.14 - 1.03	-	low
butan-1-ol	1	3.16	low
pentane-2,4-dione	0.68	-	low

12.4 Mobility in soil

Soil/water partition coefficient

No known data avaliable in our database.

(K_{oc}):

Mobility: No known data avaliable in our database.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC): 08 01 11*

Packaging

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.

SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

	14.1 UN no.	14.2 Proper shipping name	14.3 Transp	ort hazard class(es)	14.4 PG*		Additional information
ADR/RID Class	UN1263	PAINT	3		III	No.	Tunnel code (D/E)
IMDG Class	UN1263	PAINT	3		III	No.	Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3	<u> </u>	III	No.	-

PG* : Packing group

Env.* : Environmental hazards

14.6 Special precautions for user

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.

14.7 Transport in bulk according to IMO instruments

Not applicable.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation - Substances of very high concern

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Other EU regulations

Seveso category This product is controlled under the Seveso III Directive.

Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

15.2 Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms: ATE = Acute Toxicity Estimate

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

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements: H226 Flammable liquid and vapour.

H302 Harmful if swallowed H311 Toxic in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled.

H335

May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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.

EUH066 Repeated exposure may cause skin dryness or cracking.

ACUTE TOXICITY - Category 3 Full text of classifications [CLP/GHS]: Acute Tox. 3

ACUTE TOXICITY - Category 4 Acute Tox. 4

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Aquatic Chronic 3 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 2 Skin Irrit. 2

Skin Sens. 1 SKIN SENSITISATION - Category 1

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
SERIOUS EYE DAMAGE/EYE IRRITATION SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)	On basis of test data Calculation method Calculation method Calculation method

Notice to reader

Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

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Safe Use of Mixture Information Hempel's Polygloss Base



This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

Indoor or outdoor spray painting by professionals or with brush, roller, putty knife, dipping etc. with good general room ventilation.

This safe use information is linked to

: Professional spray painting and/or low-energy painting, local effect - Level II

Skin Sens. 1, Eye Irrit. 2, Asp. Tox. 1 or Solvent.

Sector(s) of use : Industrial uses - Professional uses

Product category(ies) : Coatings and paints, thinners, paint removers

Operational conditions

Place of use : Indoor or outdoor use

Risk management measures (RMM)

Contributing activity	Process	Maximum duration	Ventilation		Respiratory	Eye	Hands
activity	category (ies)	duration	Type and air changes per hour				
Preparation of material for application	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by brush or roller	PROC10	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by spraying	PROC11	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	None	None
Cleaning	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.







