

Safety data sheet
According to 1907/2006/EC, Article 31

Printing date 10.04.2018

Version number 2

Revision: 10.04.2018

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

- **1.1 Product identifier**
- **Trade name: Polyurethane Fast Cast Resin Beige/Black Part A**
- **Utilization of the substance of the formulation: polyurethane resin**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application for the substance / the preparation polyurethane resin**
- **Uses advised against None**
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**
DWR plastics
Broadway
Newport
Shropshire
TF10 7TP
Tel: +44 (0) 7576028547
- **Further information obtainable from: environment protection department**
- **1.4 Emergency telephone number:**
phone : + 44 (0) 7576028547

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



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Eye Irrit. 2 H319 Causes serious eye irritation.

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- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**



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- **Signal word Warning**
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P264 Wash thoroughly after handling.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 If eye irritation persists: Get medical advice/attention.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT: Not applicable.**
- **vPvB: Not applicable.**

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SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixture**
- **Description:** Mixture of substances listed below with non-hazardous additions.

- **Dangerous components:**

CAS: 25214-63-5 NLP: 500-035-6 Reg.nr.: 01-2119471485-32	Polyoxyalkylene Polyol Eye Irrit. 2, H319	25-50%
CAS: 25322-69-4	Polypropylene glycol Acute Tox. 4, H302	10-25%
CAS: 64742-47-8 EC number: 918-167-1 Reg.nr.: 01-2119472146-39	Distillates (petroleum), hydrotreated light Flam. Liq. 3, H226; Asp. Tox. 1, H304	5-10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
If swallowed, rinse mouth with water (only if the person is conscious).
Do not induce vomiting; call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released: Carbon monoxide (CO)
carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

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· **Additional information**

Collect contaminated firefighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· **6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.**

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling provide for best ventilation in the work space**

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke. Protect from heat.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Keep container tightly closed and dry and storage in a good ventilated room.

Storage temperature: 15 - 25 °C.

· **Information about storage in one common storage facility:**

Do not store together with oxidising and acidic materials.

· **Further information about storage conditions:**

Store in dry conditions.

Protect from frost.

· **Storage class: 10**

· **7.3 Specific end use(s) No further relevant information available.**

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities: No further data; see item 7.**

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

Phthalic Acid Bis-(3,5,5-Trimethyl-Hexyl Ester)

Wel (Great Britian) Long-term value: 5 mg/m³

· **DNELs**

CAS: 25214-63-5 Polyoxyalkylene Polyol

Oral:	DNEL Long-term – systemic effects	8.3mg/kg bw/day (General population)
Dermal :	DNEL Long-term – systemic effects	8.3mg/kg bw/day (General population)
		13.9mg/kg bw/day (Workers)
Inhalative:	DNEL Long-term – systemic effects	29 mg/m ³ (General population)
		98 mg/m ³ (workers)

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· PNECs

CAS: 25214-63-5 Polyoxyalkylene Polyol

PNEC	0.193 mg/kg (freshwater- sediment)
PNEC	0.0193 mg/kg (seawater - sediment)
	0.0183 mg/kg (soil (Boden))
	0.085 mg/l (freshwater)
	0.0085 mg/l (marine water)
	70 mg/l (sewage plant)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

Preventive skin protection (3-point program) required

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Natural rubber, NR

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Liquid

Colour: Cream or Black

· **Odour:** Characteristic

· **Odour threshold:** Not determined

· **pH-value:**

Melting point/Melting range: Not applicable

Boiling point/Boiling range: ca. 170 °C

· **Flash point:** ca. 95 °C

· **Flammability (solid, gaseous):** Not determined

· **Ignition temperature:** Not determined

· **Decomposition temperature:** 265 °C

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· Self-igniting:	Product is not self-igniting.
· Danger of explosion:	Not determined
· Explosion limits:	
Lower:	Not determined
Upper:	Not determined
· Vapour pressure:	Not determined
· Density at 20 °C:	0.95 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with water:	Insoluble in water
· Viscosity:	110 mPas
· Solvent content:	
Organic solvents:	10.5 %
VOC (EC)	99.5 g/l
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** water , alcohol , amine , base and acid
- **10.6 Hazardous decomposition products:** Flammable gases/vapours Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· LD/LC50 values relevant for classification:		
CAS: 25214-63-5 Polyoxyalkylene Polyol		
Oral:	LD50	>2000mg/kg (Rat)
Dermal:	LD50	>2000mg/kg (Rabbit)
Aliphatic Fatty Acids		
Oral	LD50	>2000mg/kg (Rat)
CAS: 25322-69-4 Polypropylene glycol		
Oral:	LD50	>2000mg/kg (Rat)
Dermal:	LD50	>10000mg/kg (Rabbit)
CAS: 64742-47-8 Distillates (petroleum), hydrotreated light		
Oral:	LD50	>5000mg/kg (Rat)
Dermal :	LD50	>50000mg/kg (Rabbit)
Inhalative:	LD50/4 hour	>4951mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritation feasible
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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Trade name: Polyurethane Fast Cast Resin Low Odour Part A

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- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 25214-63-5 Polyoxyalkylene Polyol

LC50 (96 h)	4500 mg/l (<i>Leuciscus</i>)
EC50 (24h)	1400 mg/l (B)
LC0 (48h)	2200 mg/l (<i>Leuciscus</i>)
EL50 (48h)	>100 mg/l (<i>Daphnia Magna</i>)
EC10	800 mg/l (<i>Pseudomonas putida</i>) (DIN EN ISO 8192)

Aliphatic Fatty Acids

LC50 (96 h)	51600 mg/l (F)
EC50 (48h)	34400 mg/l (D)

CAS: 25322-69-4 Polypropylene glycol

EC50 (48h)	>100 mg/l (<i>Daphnia Magna</i>)
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- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** Elimination by adsorption onto activated sludge
- **12.3 Bio accumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
Dispose in accordance to applicable local and national or regional rules.
- **Recommendation European waste catalogue 20 01 27*** paint, inks, adhesives and resins containing hazardous substances
- **Uncleaned packaging:**
- **Recommendation:**
- Disposal according to official regulations

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SECTION 14: Transport information

- **14.1 UN-Number**
· **ADR, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**
· **ADR, ADN, IMDG, IATA** Void

- **14.3 Transport hazard class(es)**
· **ADR, ADN, IMDG, IATA**
· **Class** Void

- **14.4 Packing group**
· **ADR, IMDG, IATA** Void

- **14.5 Environmental hazards:**
· **Marine pollutant:** No

- **14.6 Special precautions for user** Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

Hazard pictograms



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- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	10-25%

- **Waterhazard class:** Water hazard class 1 (VwVwS 17.05.99): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

· **Department issuing MSDS: environment protection department**

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: very Persistent and very Bio accumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category

2 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3