

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

Printing date 01.10.2017

Version number 2

Revision: 01.10.2017

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

- **1.1 Product identifier**
- **Trade name:** Polyurethane Casting Resin Slow Cure 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) 117 9550448

SECTION 2: Hazards identification

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



GHS07

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**



GHS07

- **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.

(Contd. on page 2)

Safety data sheet

According to 1907/2006/EC, Article 31

Printing date 01.10.2017

Version number 2

Revision: 01.10.2017

Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

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

· Dangerous components:		
CAS: 1318-02-1	Zeolite (Aluminosilcate) ~ Acute Tox. 4, H312, H332	1 - 5%
CAS: 25214-63-5 Reg.nr.: 01-2119471485-32	Polyoxyalkylene Polyol ~ Eye Irrit. 2, H319	15 - 40%
CAS: 6846-50-0 Reg.nr.: 01-2119565150-48-0000	Bis(isopropyl)naphthalin Asp. Tox. 1, H304, Aquatic Chronic 1, H410	1-5%
CAS: 64742-95-8 EC number: 265-199-0	Distillates (petroleum), hydrotreated light ~ Flam. Liq. 3, H226; ~ Asp. Tox. 1, H304, Aquatic Chronic 2, H411, STOT SE 3, H335-H336	<0.1.5%

- **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.

(Contd. on page 3)

Safety data sheet

According to 1907/2006/EC, Article 31

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Version number 2

Revision: 01.10.2017

Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 2)

· **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 work place:**

This product does not contain quantities of materials with critical values that must be monitored at the workplace.

· **PNECS**

CAS: 6846-50-0 Bis(isopropyl)naphthalin

NOCEC (21 d) 0.013 mg/l (daphnia magna) ((OECD 202, part 2))

· **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.**

(Contd. on page 4)

Safety data sheet

According to 1907/2006/EC, Article 31

Printing date 01.10.2017

Version number 2

Revision: 01.10.2017

Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 3)

· **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:	Fluid
· Form:	Whitish
· Colour:	Characteristic
· Odour:	Not determined.
· Odour threshold:	Not determined.

· **pH-value:**

· Change in condition	Undetermined.
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· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** > 100 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** 290 °C

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Product is not self-igniting.

· **Self-igniting:** Product does not present an explosion hazard.

· **Danger of explosion:**

· **Explosion limits:** Not determined.
Not determined.

· **Lower:**

· **Upper:** Not determined.

· **Vapour pressure:** 0,95 g/cm³

· **Density at 20 °C:** Not determined.

· **Relative density · Vapour density** Not determined.

(Contd. on page 5)

Safety data sheet

According to 1907/2006/EC, Article 31

Printing date 01.10.2017

Version number 2

Revision: 01.10.2017

Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 4)

· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic at 20 °C:	90 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.25 %
· 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:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant classification

CAS: 38640-62-9 Bis(isopropyl)naphthalin

Oral	LD50	>4000mg/kg (Rat)
	NOAEL Long Term toxicity	170mg/kg (Rat)
Dermal	LD50	>4000mg/kg (Rat)
Inhaled	LC50/4 h Aerosol	>5.6mg/l (Rat) (OECD 403 (Aerosol))

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

Contd. on page 6)

Safety data sheet

According to 1907/2006/EC, Article 31

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Version number 2

Revision: 01.10.2017

Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 5)

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

CAS: 38640-62-9 Bis(isopropyl)naphthalin

EC0 (72h)	0.15mg/l (AI) ((OECD 201))
EC0 (48h)	0.16mg/l (daphnia magna) ((DIN 38412, part 11))
LL50 (48h)	1.7mg/l (daphnia magna) ((loading, OECD 202))
LC0 (96h)	0.5mg/l (fish) ((nominal; OECD 203))

· **12.3 Bio accumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 1: Slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Do not allow product to reach sewage system.

After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.

· European waste catalogue

20 01 27* paint, inks, adhesives and resins containing hazardous substances

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

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

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Revision: 01.10.2017

Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 6)

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



GHS07

- **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 | 0.5 |
- **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.

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

(Contd. on page 8)

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

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Trade name: Polyurethane Casting Resin Slow Cure Part A

(Contd. of page 7)

· 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

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