

### SAFETY DATA SHEET NITOSEAL PU800 PART A

SECTION 1: Identification of th	e substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	NITOSEAL PU800 PART A		
Product number	A1475021UK9		
Synonyms; trade names	S EXPOFLEX 800 PART A		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	Base component of two-part epoxy PU joint sealant.		
1.3. Details of the supplier of the	ne safety data sheet		
Supplier	Fosroc Limited Drayton Manor Business Park Coleshill Road Tamworth Staffordshire B78 3XN England Tel: +44 (0) 1827 262222 Fax: +44 (0) 1827 262444 enquiryuk@fosroc.com		
1.4. Emergency telephone num	nber		
Emergency telephone	Emergency telephone +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)		
SECTION 2: Hazards identification	ition		
2.1. Classification of the substa	ance or mixture		
Classification (EC 1272/2008)			
Physical hazards	Not Classified		
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Repr. 2 - H361fd		
Environmental hazards	Aquatic Chronic 3 - H412		
2.2. Label elements			
Hazard pictograms			
Signal word	Warning		
Hazard statements	<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>		

Precautionary statements	<ul> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	ISOCYANATE PREPOLYMER, BISPHENOL A EPOXY RESIN, 1,6 HEXANEDIOL DIGLYCIDYL ETHER, ALKYL GLYCIDYL ETHER C12/C14
Supplementary precautionary statements	<ul> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P261 Avoid breathing vapour/ spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/ attention.</li> <li>P321 Specific treatment (see medical advice on this label).</li> <li>P332+P313 If skin irritation occurs: Get medical advice/ attention.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P405 Store locked up.</li> </ul>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients			
3.2. Mixtures			
Branched polymer with other and urethane groups and			
crosslinkable blocked isocvanate groups			
CAS number:			
CAS humber. —	EC humber. 919-003-0		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Repr. 2 - H361	-		
CALCIUM CARBONATE (STEARATE COATED)		30-60%	
CAS number: 471-34-1	EC number: 207-439-9		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Not Classified	-		
<b>BISPHENOL A EPOXY RESIN</b>		10-30%	
CAS number: 25068-38-6	EC number: 500-033-5		
Classification			
Skip Irrit 2 H315			
Eve Irrit $2 - H319$			
Skin Sens 1 - H317			
Aquatic Chronic 2 - H411			

ALKYL GLYCIDYL ETHER C	12/C14	1-5%	
CAS number: 68609-97-2	EC number: 271-846-8	REACH registration number: 01- 2119485289-22-XXXX	
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317			
1,6 HEXANEDIOL DIGLYCID	YL ETHER	1-5%	
CAS number: 16096-31-4	EC number: 240-260-4		
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412			
		<1%	
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01- 2119489379-17-0000	
Classification Not Classified			
The Full Text for all R-Phrases	and Hazard Statements are Displayed in Section	on 16.	
SECTION 4: First aid measure	S		
4.1. Description of first aid mea	asures		
General information	Remove affected person from source of contact continues.	mination. Get medical attention if any discomfort	
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.		
Ingestion	Get medical attention. Do NOT induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.		
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.		
Eye contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.		
4.2. Most important symptoms and effects, both acute and delayed			
General information	The severity of the symptoms described will valength of exposure.	ary dependent on the concentration and the	
Inhalation	Unlikely to be hazardous by inhalation because ambient temperature. May cause respiratory s	e of the low vapour pressure of the product at ystem irritation.	
Ingestion	May cause irritation of mouth, throat and diges	stive tract.	
Skin contact	Skin irritation. May cause sensitisation by skin	contact.	

Eye contact	Irritation of eyes and mucous membranes.	
4.3. Indication of any immediat	e medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	ures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	om the substance or mixture	
Specific hazards	No unusual fire or explosion hazards noted.	
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.	
5.3. Advice for firefighters		
Protective actions during firefighting	No specific firefighting precautions known. Control run-off water by containing and keeping it out of sewers and watercourses.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
SECTION 6: Accidental releas	e measures	
6.1. Personal precautions, prot	tective equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
6.2. Environmental precautions	3	
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.	
6.3. Methods and material for o	containment and cleaning up	
Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.	
6.4. Reference to other section	<u>is</u>	
Reference to other sections	For waste disposal, see section 13.	
SECTION 7: Handling and storage		
7.1. Precautions for safe hand	ing	
Usage precautions	Provide adequate ventilation. Avoid the formation of mists.	
7.2. Conditions for safe storage	e, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.	
Storage class	Chemical storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure control	s/Personal protection	

#### 8.1. Control parameters

Occupational exposure limits

CALCIUM CARBONATE (STEARATE COATED)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 Inhal. Dust 4 mg/m3 Resp. Dust

#### TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

#### **BISPHENOL A EPOXY RESIN (CAS: 25068-38-6)**

DNEL	Workers - Inhalation; Long term, Short term systemic effects: 12.25 mg/m³ Workers - Dermal; Long term, Short term systemic effects: 8.33 mg/kg/day
PNEC	- Fresh water; 0.006 mg/l - marine water; 0.0006 mg/l - Intermittent release; 0.018 mg/l - Soil; 0.196 mg/kg
	ALKYL GLYCIDYL ETHER C12/C14 (CAS: 68609-97-2)
DNEL	Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day
PNEC	- Fresh water; 0.0072 mg/l - marine water; 0.00072 mg/l
	TITANIUM DIOXIDE (CAS: 13463-67-7)
DNEL	Industry - Inhalation; Long term : 10 mg/m³ Consumer - Oral; Long term : 700 mg/kg/day
PNEC	- Fresh water; >1 mg/l - marine water; 0.127 mg/l - Soil; 100 mg/kg - STP; 100 mg/kg

#### 8.2. Exposure controls

Protective equipment



Appropriate engineering Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

controls

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC).

Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Do not smoke in work area.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physi	cal and chemical properties	
Appearance	Viscous liquid.	
Colour	White.	
Odour	Mild.	
Odour threshold	Not determined.	
pН	Not applicable.	
Melting point	Not determined.	
Initial boiling point and range	Not determined.	
Flash point	> 150°C	
Evaporation rate	Not determined.	
Evaporation factor	Not determined.	
Upper/lower flammability or explosive limits	The product is not flammable.	
Other flammability	Not applicable.	
Vapour pressure	< 0.008 kPa @ 20°C	
Vapour density	Not determined.	
Relative density	1.34 @ 20°C	
Bulk density	Not determined.	
Solubility(ies)	Insoluble in water.	
Partition coefficient	Not determined.	
Auto-ignition temperature	Not applicable.	
Decomposition Temperature	Not determined.	
Viscosity	Not determined.	
Explosive properties	Not considered to be explosive.	
Explosive under the influence of a flame	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising.	
9.2. Other information		
Other information	No data available.	

SECTION 10: Stability and reactivity			
10.1. Reactivity			
Reactivity	The following materials may react with the product: Amino, hydroxyl or carboxyl groups		
10.2. Chemical stability			
Stability	Stable at normal ambient temperatures.		
10.3. Possibility of hazardous	reactions		
Possibility of hazardous reactions	May polymerise.		
10.4. Conditions to avoid			
Conditions to avoid	Avoid excessive heat for prolonged periods of time.		
10.5. Incompatible materials			
Materials to avoid	Strong acids. Strong alkalis. Strong oxidising agents.		
10.6. Hazardous decompositi	on products		
Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen. Irritant fumes.		
SECTION 11: Toxicological in	nformation		
11.1. Information on toxicolog	jical effects		
Skin corrosion/irritation	osion/irritation		
Animal data	Irritating.		
Skin sensitisation Skin sensitisation	Sensitising.		
Inhalation	Gas or vapour may irritate the respiratory system.		
Ingestion	May cause discomfort if swallowed.		
Skin contact	Irritating to skin. May cause sensitisation by skin contact.		
Eye contact	Irritating to eyes.		
Acute and chronic health hazards	Repeated and prolonged skin contact may lead to skin disorders.		
Route of exposure	Skin and/or eye contact		
Toxicological information on i	ngredients.		
	1,6 HEXANEDIOL DIGLYCIDYL ETHER		
Acute toxicity - o	pral		
Acute toxicity oral (LD₅∞ 2,900.0 mg/kg)			
Species	Rat		
	TITANIUM DIOXIDE		
Acute toxicity - i	nhalation		
Notes (inhalatio	n LC₅₀ >6.82 mg/l, Inhalation, Rat		

	Skin corrosion/irritation	
	Animal data	Not irritating.
	Skin sensitisation	
	Skin sensitisation	- Guinea pig: Not sensitising.
	Carcinogenicity	
	IARC carcinogenicity	IARC Group 2B Possibly carcinogenic to humans.
	Specific target organ toxicit	ty - single exposure
	STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure
	Specific target organ toxicit	ty - repeated exposure
	STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
	Aspiration hazard	
	Aspiration hazard	Based on available data, the classification criteria are not met.
SECTION 1	2: Ecological information	
Ecotoxicity	The proc long-terr	duct contains substances which are toxic to aquatic organisms and which may cause n adverse effects in the aquatic environment.
12.1. Toxici	<u>by</u>	
Toxicity	May cau fish/dapl	ise long-term adverse effects in the aquatic environment. Ecotoxic to hnia/algae
Ecological in	nformation on ingredients.	
	Branched polymer	with ether and urethane groups and crosslinkable, blocked isocyanate groups
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: >10000 mg/l, Fish
	Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 0.14 mg/l, Daphnia magna
	Acute toxicity - aquatic plants	IC₅₀, 72 hours: 1.3 mg/l, Algae
		BISPHENOL A EPOXY RESIN
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
		TITANIUM DIOXIDE
	Acute aquatic toxicity	
	Acute toxicity - fish	LC50, 96 hours: > 10000 mg/l,
12.2. Persistence and degradability		
Persistence and degradability The product is not expected to be biodegradable.		
Ecological information on ingredients.		
Branched polymer with ether and urethane groups and crosslinkable, blocked isocyanate groups		

	Persistence and degradability		The product is not readily biodegradable.
			BISPHENOL A EPOXY RESIN
	Persistence and degradability		The product is not readily biodegradable.
	Biodegradation		- Degradation 12%: 28 days
12.3. Bioaco	umulative potentia	1	
Bioaccumula	ative potential	No data a	available on bioaccumulation.
Partition coe	fficient	Not deter	rmined.
Ecological in	formation on ingre	edients.	
			BISPHENOL A EPOXY RESIN
	Bioaccumulative	potential	May accumulate in soil and water systems. BCF: 100,
	Partition coefficie	nt	: log Pow = Approximately 3.8 at 25 C
			1,6 HEXANEDIOL DIGLYCIDYL ETHER
	Partition coefficie	nt	: log Pow = Aproximadamente 3.8 at 25 °C
			TITANIUM DIOXIDE
	Bioaccumulative	potential	The product is not bioaccumulating.
12.4. Mobilit	y in soil		
Mobility	<u> </u>	Viscous I	liquid. Insoluble in water.
Ecological ir	Ecological information on ingredients.		
			BISPHENOL A EPOXY RESIN
	Mobility		Not considered mobile.
12.5. Result	s of PBT and vPvE	3 assessm	ent
<b>Results of PBT and vPvB</b> This product does not contain any substances classified as PBT or vPvB. assessment			
Ecological ir	formation on ingre	edients.	
			BISPHENOL A EPOXY RESIN
	Results of PBT an assessment	nd vPvB	This substance is not classified as PBT or vPvB according to current EU criteria.
12.6. Other a	adverse effects		
Other advers	se effects	None kno	own.
SECTION 1	3: Disposal conside	erations	
13.1. Waste	treatment method	s	
General info	rmation	Disposal	must be in accordance with local and national legislation.

Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Note that fully cured material is not considered as hazardous waste.			
SECTION 14: Transport inform	ation			
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).			
14.1. UN number				
Not applicable.				
14.2. UN proper shipping name				
Not applicable.				
14.3. Transport hazard class(e	<u>s)</u>			
No transport warning sign requ	ired.			
14.4. Packing group				
Not applicable.				
14.5. Environmental hazards				
Environmentally hazardous sul No.	bstance/marine pollutant			
14.6. Special precautions for u	ser			
Not applicable.				
14.7. Transport in bulk accordi	ng to Annex II of MARPOL and the IBC Code			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.			
SECTION 15: Regulatory infor	mation			
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture			
National regulations	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).			
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.			
Guidance	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.			
15.2. Chemical safety assessment				
No chemical safety assessment has been carried out.				
SECTION 16: Other informatio	n			

General information	Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	09/09/2019
Revision	5b
Supersedes date	12/06/2017
SDS number	12147
Hazard statements in full	<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



### SAFETY DATA SHEET NITOSEAL PU800 PART B

SECTION 1: Identification of the	e substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	NITOSEAL PU800 PART B	
Product number	A1475022UK9	
Synonyms; trade names	EXPOFLEX 800 CURING AGENT	
1.2. Relevant identified uses of	f the substance or mixture and uses advised against	
Identified uses	Hardener component of two part epoxy PU joint sealant	
1.3. Details of the supplier of the	ne safety data sheet	
Supplier	Fosroc Limited Drayton Manor Business Park Coleshill Road Tamworth Staffordshire B78 3XN England Tel: +44 (0) 1827 262222 Fax: +44 (0) 1827 262444 enquiryuk@fosroc.com	
1.4. Emergency telephone nur	nber	
Emergency telephone	+44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)	
SECTION 2: Hazards identifica	ation	
2.1. Classification of the substa	ance or mixture	
Classification (EC 1272/2008)		
Physical hazards	Not Classified	
Health hazards	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317	
Environmental hazards	Not Classified	
2.2. Label elements		
Hazard pictograms		
Signal word	Danger	
Hazard statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.	

Precautionary statements	<ul> <li>P261 Avoid breathing vapour/ spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	BENZYL ALCOHOL, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, ISOPHORONEDIAMINE, TRIMETHYLHEXANE-1,6-DIAMINE, BENZYLDIMETHYLAMINE
Supplementary precautionary statements	<ul> <li>P260 Do not breathe vapour/ spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P310 Immediately call a POISON CENTER/ doctor.</li> <li>P321 Specific treatment (see medical advice on this label).</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P405 Store locked up.</li> </ul>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

3.2. Mixtures		
CALCIUM CARBONATE (STEARATE	COATED)	30-60%
CAS number: 471-34-1	EC number: 207-439-9	
Classification Not Classified	Classification (67/5 -	548/EEC or 1999/45/EC)
BENZYL ALCOHOL		10-30%
CAS number: 100-51-6	EC number: 202-859-9	REACH registration number: 01- 2119492630-38-xxxx
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 Aquatic Chronic 2 - H411		

2,4,6-TRIS(DIMETHYLAMINOMETHYL)	PHENOL		5-10%
CAS number: 90-72-2	EC number: 202-013-9	REACH registration number: 01- 2119560597-27-XXXX	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319			
ISOPHORONEDIAMINE			5-10%
CAS number: 2855-13-2	EC number: 220-666-8	REACH registration number: 01- 2119514687-32-xxxx	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412			
TRIMETHYLHEXANE-1,6-DIAMINE	EC number: 247 124 8		5-10%
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412			
BENZYLDIMETHYLAMINE CAS number: 103-83-3	EC number: 203-149-1		1-5%
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412			
Bis(dimethylaminomethyl)phenol	EC number: 275-162-0		<1%
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318			

# NITOSEAL PU800 PART B

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measure	iS			
4.1. Description of first aid mea	asures			
General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.			
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention if any discomfort continues.			
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.			
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.			
Eye contact	Remove affected person from source of contamination. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.			
4.2. Most important symptoms and effects, both acute and delayed				
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.			
Inhalation	Upper respiratory irritation. Coughing, chest tightness, feeling of chest pressure.			
Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting. Ingestion of significant amounts may result in severe systemic effects.			
Skin contact	Chemical burns. May cause sensitisation by skin contact.			
Eye contact	Eye contact may cause serious and potentially irreversible injuries.			
4.3. Indication of any immediat	te medical attention and special treatment needed			
Notes for the doctor	Treat symptomatically.			
SECTION 5: Firefighting meas	ures			
5.1. Extinguishing media				
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.			
5.2. Special hazards arising fro	om the substance or mixture			
Specific hazards	Water used for fire extinguishing, which has been in contact with the product, may be corrosive.			
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of nitrogen.			
5.3. Advice for firefighters				
Protective actions during firefighting	Containers close to fire should be removed or cooled with water.			

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
SECTION 6: Accidental release	e measures	
6.1. Personal precautions, prot	ective equipment and emergency procedures	
Personal precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not breathe vapour.	
6.2. Environmental precautions	<u>}</u>	
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.	
6.3. Methods and material for c	containment and cleaning up	
Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid contamination of ponds or watercourses with washing down water.	
6.4. Reference to other section	<u>is</u>	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.	
SECTION 7: Handling and stor	age	
7.1. Precautions for safe handl	ing	
Usage precautions	Provide adequate ventilation. Avoid contact with skin and eyes. Avoid the formation of mists. Do not use in confined spaces without adequate ventilation and/or respirator.	
7.2. Conditions for safe storage	e, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.	
Storage class	Corrosive storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure controls	s/Personal protection	
8.1. Control parameters		
Occupational exposure limits		
CALCIUM CARBONATE (STE	ARATE COATED)	
Long-term exposure limit (8-ho WEL = Workplace Exposure Li	ur TWA): WEL 10 mg/m3 Inhal. Dust 4 mg/m3 Resp. Dust mit	

### BENZYL ALCOHOL (CAS: 100-51-6)

DNEL	Workers - Inhalation; Short term systemic effects: 110 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 22 mg/m <sup>3</sup> Workers - Dermal; Short term systemic effects: 40 mg/kg bw/day Workers - Dermal; Long term systemic effects: 8 mg/kg bw/day
PNEC	- Fresh water; 1 mg/l - marine water; 0.1 mg/l - STP; 39 mg/l

### ISOPHORONEDIAMINE (CAS: 2855-13-2)

PNEC	- marine water; 0.006 mg/l - Fresh water; 0.06 mg/l - Soil; 1.121 mg/kg
	Bis(dimethylaminomethyl)phenol (CAS: 71074-89-0)
PNEC	- Fresh water; 0.084 mg/l - marine water; 0.0084 mg/l
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.
Hand protection	Wear protective gloves made of the following material: Nitrile rubber. Viton rubber (fluoro rubber). Polyvinylidene chloride/polyethylene (PVDC/PE). Polyvinyl chloride (PVC).
Other skin and body protection	Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Organic vapour filter.

### SECTION 9: Physical and chemical properties

9.1.	Information of	on basic	physical	and	chemical	properties
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Appearance	Viscous liquid.
Colour	Grey.
Odour	Amine.
Odour threshold	Not determined.
рН	pH (concentrated solution): approx. 12
Melting point	Not determined.
Initial boiling point and range	100 - 240°C @ 1 atm
Flash point	> 120°C
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	No.

Upper/lower flammability or explosive limits	The product is not flammable.	
Other flammability	Not determined.	
Vapour pressure	Not determined.	
Vapour density	Not determined.	
Relative density	1.49 @ 20°C	
Bulk density	Not determined.	
Solubility(ies)	Partially soluble in water.	
Partition coefficient	Not determined.	
Auto-ignition temperature	> 400°C	
Decomposition Temperature	Not determined.	
Viscosity	Not determined.	
Explosive properties	Not considered to be explosive.	
Explosive under the influence of a flame	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising.	
9.2. Other information		
Other information	Not available.	
SECTION 10: Stability and read	ctivity	
10.1. Reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures.	
10.3. Possibility of hazardous r	reactions	
Possibility of hazardous reactions	Not determined. Will not polymerise.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat. Temperatures below 2°C.	
10.5. Incompatible materials		
Materials to avoid	Strong acids. Strong oxidising agents. Strong alkalis.	
10.6. Hazardous decomposition	n products	
Hazardous decomposition products	Ammonia or amines. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of nitrogen.	
SECTION 11: Toxicological info	ormation	
SECTION 11: Toxicological info	ormation cal effects	

Species	Rat
ATE oral (mg/kg)	1,635.73
Acute toxicity - dermal Acute toxicity dermal (LD <sub>50</sub> mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	11,138.11
Acute toxicity - inhalation ATE inhalation (gases ppm)	273,390.04
ATE inhalation (vapours mg/l)	668.29
ATE inhalation (dusts/mists mg/l)	19.85
Inhalation	May cause respiratory system irritation.
Ingestion	Causes burns. May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	Product has a defatting effect on skin. May cause allergic contact eczema. May cause sensitisation by skin contact. Causes burns. Harmful in contact with skin.
Eye contact	Causes irreversible damage to eye tissue if not removed promptly.
Acute and chronic health hazards	May cause sensitisation by skin contact.
Route of exposure	Inhalation Ingestion. Skin and/or eye contact

### Toxicological information on ingredients.

### **BENZYL ALCOHOL**

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	1,620.0
Species	Rat
ATE oral (mg/kg)	1,620.0
Acute toxicity - dermal	
Acute toxicity dermal (LD∞ mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	4.178
Species	Rat

ATE inhalation (dusts/mists mg/l)	4.178		
Skin sensitisation			
Skin sensitisation	Not sensitising.		
Carcinogenicity			
Carcinogenicity	NOAEL 200 mg/kg/day, Oral, Mouse There is no evidence that the product can cause cancer.		
Specific target organ toxicit	y - repeated exposure		
STOT - repeated exposure	NOAEL 400 mg/kg, Oral, Rat		
General information	Contact physician if discomfort comtinues		
Inhalation	May cause coughing and difficulties in breathing.		
Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach.		
Skin contact	Prolonged and frequent contact may cause redness and irritation.		
Eye contact	Severe irritation, burning and tearing.		
	2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL		
Acute toxicity - oral			
ATE oral (mg/kg)	500.0		
	ISOPHORONEDIAMINE		
Acute toxicity - oral			
Acute toxicity oral (LD₅₀ mg/kg)	1,030.0		
Species	Rat		
ATE oral (mg/kg)	500.0		
Acute toxicity - dermal			
Acute toxicity dermal (LD₅₀ mg/kg)	1,840.0		
Species	Rabbit		
ATE dermal (mg/kg)	1,100.0		
	TRIMETHYLHEXANE-1,6-DIAMINE		
Acute toxicity - oral			
ATE oral (mg/kg)	500.0		
BENZYLDIMETHYLAMINE			
Acute toxicity - oral			
ATE oral (mg/kg)			
	500.0		

	ATE dermal (mg/kg)	1,100.0
<b>SECTION 1</b>	2: Ecological information	
Ecotoxicity	Dange substa effects	erous for the environment if discharged into watercourses. The product contains a ance which is harmful to aquatic organisms and which may cause long-term adverse in the aquatic environment.
12.1. Toxicit	У	
Toxicity	Ecoto	kic to fish/daphnia/algae
Ecological in	nformation on ingredients.	
		BENZYL ALCOHOL
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 460 mg/l, Pimephales promelas (Fat-head Minnow)
	Acute toxicity - aquatic invertebrates	EC₀, 48 hours: 230 mg/l, Daphnia magna
	Acute toxicity - aquatic plants	EC₅₀, 72 hours: 770 mg/l, Pseudokirchneriella subcapitata
		2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 718 mg/l, Fish
		ISOPHORONEDIAMINE
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 110 mg/l, Fish
	Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 23 mg/l, Daphnia magna
	Acute toxicity - aquatic plants	IC₅₀, 72 hours: 50 mg/l, Algae
		Bis(dimethylaminomethyl)phenol
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)
12.2. Persis	tence and degradability	
Persistence	and degradability The pr	oduct is not readily biodegradable.
Ecological information on ingredients.		
		BENZYL ALCOHOL
	Persistence and degradability	The product is readily biodegradable.
		ISOPHORONEDIAMINE

Persistence and	The product is not readily biodegradable.	
12.3 Bioaccumulative potentia		
Bioaccumulative potential	No data available on bioaccumulation. Not expected to be bioaccumulative.	
Partition coefficient	Not determined.	
Ecological information on ingre	lients	
	BENZYL ALCOHOL	
Bioaccumulative	otential The product does not contain any substances expected to be bioaccumulating.	
Partition coefficie	log Kow: 1.10	
	ISOPHORONEDIAMINE	
Bioaccumulative	otential The product does not contain any substances expected to be bioaccumulating.	
Partition coefficient	log Kow: 0.99	
12.4. Mobility in soil		
Mobility	Viscous liquid. Partially soluble in water.	
Ecological information on ingre	lients.	
	BENZYL ALCOHOL	
Mobility	Insoluble in water.	
12.5. Results of PBT and vPvB	assessment	
Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.         assessment       assessment		
Ecological information on ingre	lients.	
BENZYL ALCOHOL		
Results of PBT ar assessment	<b>d vPvB</b> This product does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effects		
Other adverse effects	Not available.	
Ecological information on ingre	lients.	
	BENZYL ALCOHOL	
Other adverse eff	cts None known.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
General information	Waste is classified as hazardous waste.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Note that fully cured material is not considered as hazardous waste.	

### SECTION 14: Transport information

14.1. UN number		
UN No. (ADR/RID)	1760	
UN No. (IMDG)	1760	
UN No. (ICAO)	1760	
UN No. (ADN)	1760	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONEDIAMINE, TRIMETHYLHEXANE- 1,6-DIAMINE)	
Proper shipping name (IMDG)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONEDIAMINE, TRIMETHYLHEXANE- 1,6-DIAMINE)	
Proper shipping name (ICAO)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONEDIAMINE, TRIMETHYLHEXANE- 1,6-DIAMINE)	
Proper shipping name (ADN)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONEDIAMINE, TRIMETHYLHEXANE- 1,6-DIAMINE)	
14.3. Transport hazard class(es)		
ADR/RID class	8	
ADR/RID classification code	C9	
ADR/RID label	8	
IMDG class	8	
ICAO class/division	8	
ADN class	8	

### Transport labels



### 14.4. Packing group

ADR/RID packing group	П	
IMDG packing group	П	
ICAO packing group	П	
ADN packing group	II	

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for	user
EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X

### Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	<ul> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> <li>December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</li> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18</li> <li>December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</li> <li>Commission Regulation (EU) No 2015/830 of 28 May 2015.</li> </ul>
Guidance	Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### **SECTION 16: Other information**

General information	Only trained personnel should use this material. For professional users only.	
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.	
Revision date	09/09/2019	
Revision	6b	
Supersedes date	12/06/2017	
SDS number	12148	
Hazard statements in full	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.