

according to 1907/2006/EC, Article 31

Flowexpand V Hardener

Revision 1 Revision date 2016-02-17

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

1.1. Product identifier			
Product name	Flowexpand V Hardener		
1.2. Relevant identified uses of	f the substance or mixture and uses advised against		
Description	Restricted to professional users.		
	Component of a Two Pack Epoxy Jointing Compound.		
1.3. Details of the supplier of t	he safety data sheet		
Company	Virtus Resins		
Address	The Shippon, Faenol		
	Pentrecelyn		
	Ruthin		
Web	www.epoxyresinsuppliers.co.uk		
Telephone	+44 (0)1978 790 744		
Fax			
Email	info@epoxyresinsuppliers.co.uk		
Email address of the	info@ epoxyresinsuppliers.co.uk		
competent person			
1.4. Emergency telephone nur	nber		
Emergency telephone number	+44 (0)1978 790744		

Emergency telephone number +44 (0)1978 790744 9.00am to 5.00pm Mon - Fri

SECTION 2: Hazards identification

virtusresins

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	C; R34 Xn; R21/22-62-63 Xi; R43 N; R50/53 Symbols: C: Corrosive. N: Dangerous for the environment.
Main hazards	Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Possible risk of harm to the unborn child.
2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 1: H410;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.



2.2. Label elements	
	Skin Sens. 1: H317 - May cause an allergic skin reaction. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Precautionary Statement:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash thoroughly after handling.
	P270 - Do no eat, drink or smoke when using this product.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P310 -Immediately call a POISON CENTER/doctor/.
	P321 - Specific treatment (see on this label).
	P330 - Rinse mouth.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P363 - Wash contaminated clothing before reuse.
	P391 - Collect spillage.
Precautionary Statement:	P405 - Store locked up.
Storage	
Precautionary Statement:	P501 - Dispose of contents/container to local and national regulations
Disposal	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. Classification M-factor (%w/w)	r.
N-aminoethylpiperazine	612-105-00-4	140-31-8	205-411-0	01-2119471486-30	40 - 50% Xn; R21/22 C; R34 R43 R52/53	
Nonylphenol	601-053-00-8	25154-52-3	246-672-0	01-2119510715-45	40 - 50% Repr. Cat. 3; R62-63 Xn; R22 C; R34 N; R50/53	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
N-aminoethylpiperazine	612-105-00-4	140-31-8	205-411-0	01-2119471486-30		Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412;	
Nonylphenol	601-053-00-8	25154-52-3	246-672-0	01-2119510715-45		Repr. 2: H361fd; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	

Description

Two Pack Epoxy Jointing Compound.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives
	medical care. If medical care is not promptly available, continue to irrigate for one hour.



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4.1. Description of first aid me	easures
Skin contact Ingestion	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by
ingestion	mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.
4.2. Most important symptoms	s and effects, both acute and delayed
Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.
4.3. Indication of any immedia	te medical attention and special treatment needed
Inhalation	No data is available on this product.
Eye contact	No data is available on this product.
Skin contact	No data is available on this product.
Ingestion	No data is available on this product.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
	Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical, Dry sand, Limestone powder.
5.2. Special hazards arising fr	om the substance or mixture
	May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result
	in the formation of very toixc aqueous solutions. Do not allow run-off from firefighting to enter
	drains or water courses. Incomplete combustion may form carbon monoxide. Downwind
E 2 Advice for firefighters	personnel must be evacuated. Burning produces noxious and toxic fumes.
5.3. Advice for firefighters	
	Avoid contact with skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for fire firefighting if necessary.
SECTION 6: Accidental rel	ease measures
6.1. Personal precautions, pro	ntective equipment and emergency procedures
	Use self-contained breathing apparatus and chemically protective clothing. Wear suitable
	protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
6.2. Environmental precaution	NS
	Construct a dike to prevent spreading.
6.3. Methods and material for	containment and cleaning up
	Approach suspected leak areas with caution. Place in appropriate chemical waste container.
Further information	
Additional advice	If possible, stop flow of product.
SECTION 7: Handling and	storage
7.1. Precautions for safe hand	-
	Do not get in eyes, on skin, on clothing. Avoid breathing vapour. Do not swallow. Avoid
	prolonged or repeated contact with skin. Keep container closed. Use with adequate ventilation.
	Wash theroughly after handling Social Section & EXPOSIBE CONTROST AND REPSONAL

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PROTECTION.

Wash thoroughly after handling. See section 8. EXPOSURE CONTROSL AND PERSONAL

7.2. Conditions for safe storage, including any incompatibilities

Store in steel containers preferably located outdoors, above ground, and surrounded by
dikes to contain spills or leaks. Do not store near acids. Keep containers tightly closed in
a dry, cool and well-ventilated area.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

Provide readily available eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.
Full face shield with goggles underneath.
Butyl rubber gloves. Neoprene gloves. Nitrile rubber gloves. Impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots.
Construct a dike to prevent spreading.
Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light (or pale) Amber
Odour	Fishy
Evaporation rate	No data available
Fat Solubility	No data available
Odour threshold	No data available
рН	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available



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9.2. Other information

SECTION 10: Stability and	reactivity
VOC (Volatile organic compounds)	
Lead content	No data available
Benzene Content	No data available
Gas group	No data available
Surface tension	No data available
Conductivity	No data available

10.1. Reactivity

	Refer to possibility of hazardous reactions and/or incompatible materials sections.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous	reactions
	No data is available on this product.
10.4. Conditions to avoid	
	No data is available on this product.
10.5. Incompatible materials	
	Sodium hypochlorite.
	Organic acids (i.e. acetic acid, citric acid etc).
	Mineral acids.
	Product slowly corrodes copper. aluminium, zinc and galvanized surfaces.
	Reaction with peroxides may result in violent decomposition of peroxide possibly
	creating and explosion.
	Reactive metal (e.g. sodium, calcium, zinc etc).
	Materials reactive with hydroxyl compounds.
	Oxidizing agents.
10.6. Hazardous decompositio	on products
	Nitric acid
	Ammonia
	Nitrogen oxides (NOx).
	Nitrogen oxide can react with water to form corrosive nitric acid.

Nill ogen oxide can react with water to form corrosive
Carbon monoxide.
Carbon dioxide (CO2).
Aldehydes.
Flammable hydrocarbon fragments.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	Harmful in contact with skin. Causes skin burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Serious eye damage/irritation	Causes eye burns. May cause blindness.
Respiratory or skin	Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of
sensitisation	perforation of the oesophagus and stomach. Can cause severe eye, skin and respiratory tract
	burns.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.

11.1.4. Toxicological Information



11.1.4. Toxicological Information	
	No data available
SECTION 12: Ecological in	formation
12.1. Toxicity	
	No data available
12.2. Persistence and degrada	1
40.0 Dissessmulative notanti	No data is available on this product.
12.3. Bioaccumulative potentia	<u></u>
Partition coefficient	
	Flowexpand V Hardener No data available
12.4. Mobility in soil	
·	No data is available on this product.
12.5. Results of PBT and vPvB	1
42.C. Other advance offecto	No data is available on this product.
12.6. Other adverse effects	
	No data is available on this product.
SECTION 13: Disposal con	siderations
13.1. Waste treatment method	S
	Contact supplier if guidance is required.
Disposal of packaging	
	Dispose of this material and its container to hazardous or special waste collection point.
Further information	<u> </u>
	Further information on waste can be obtained from the document "Guidance on the
	Classification and Assessment of Waste, Technical guidance WM3.
SECTION 14: Transport inf	ormation
Hazard pictograms	
14.1. UN number	
	UN2735
14.2. UN proper shipping name	e
	AMINES, LIQUID, CORROSIVE N.O.S.
14.3. Transport hazard class(e	ls)
ADR/RID	8
Subsidiary risk	1-
IMDG	8
Subsidiary risk] -
ΙΑΤΑ	8



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14.3. Transport hazard class(es)	
Subsidiary risk	-
14.4. Packing group	
Packing group	111
14.5. Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B
ΙΑΤΑ	
Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction	852
(Passenger)	
Maximum quantity	5L
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
	"COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC".
	"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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC".
15.2. Chemical safety assessment	
	For advice on essential measures see sections 7 and 8 of this safety data sheet.
SECTION 16: Other information	
Other information	

Revision	 This document differs from the previous version in the following areas:. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Disposal.
	13 - Further information.
Text of risk phrases in Section	R21/22 - Harmful in contact with skin and if swallowed.
3	R22 - Harmful if swallowed.
	R34 - Causes burns.
	R43 - May cause sensitisation by skin contact. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic



Other information	
	environment. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child.
Text of Hazard Statements in	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Acute Tox. 4: H312 - Harmful in contact with skin.
	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
	Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
	Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
General information	
	This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy.
Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

