SAFETY DATA SHEET

Hydraguard B

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and the UK REACH Regulations SI 2019/758.

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

1.1 Product identifier
Hydraguard B

1.2 Relevant identified uses of the substance or mixture and uses advised against
Part B of 2-part epoxy resin system
No uses advised against. Use only as instructed.

1.3 Details of the supplier of the safety data sheet
Vuba Building Products Limited
Units B2, B3 and B4 Grovehill Industrial Estate,
Beverley, HU17 0LF.

Tel: 01482 778897
E mail: sales@vubagroup.com
Web: www.vubaresinproducts.com

1.4 Emergency telephone number

In case of emergency Tel. 01482 778897 (09:00-17:00 Mon-Fri)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture
Classification according to the CLP Regulation (EC) No 1272/2008 and the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain:

Skin Corr. 1B H314 Causes severe skin burns and eye damage
Eye Dam. 1 H318 Causes serious eye damage
Skin Sens. 1 H317 May cause an allergic skin reaction
Repr. 1B H360Fd May damage fertility. Suspected of damaging the unborn child
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects

2.2 Label elements

Danger
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H360 Fd May damage fertility. Suspected of damaging the unborn child
H411 Toxic to aquatic life with long lasting effects
P202 Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, eye protection, face protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water
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/…
P501 Dispose of contents/container in accordance with local/national legislation

Contains:
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
3-Aminomethyl-3,5,5- trimethylcyclohexylamine
m-phenylenebis(methylamine)
[Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine] reaction products with bisphenol A diglycidyl ether
[Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine] reaction products with glycidyl tolyl ether
3-aminopropyldimethylamine
3-aminopropyltriethoxysilane

2.3 Other hazards
Will set hard upon mixing with Part A of the product. Read instructions carefully before use
Contains no components known to be PBT or vPvB or to have endocrine disrupting properties.

SECTION 3: Composition

3.1 Substances
Not applicable, product is a mixture.

3.2 Mixtures

Name	CAS / EC / Index / Registration Nos	Conc. %w/w	Classification
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1 500-191-5 01-2119972320-44	20-35	Skin Irrit. 2 H315 Skin Sens. 1A H317 Eye Dam. 1 H318 Aquatic Chronic 2 H411
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	20-35	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319
[Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine] reaction products with bisphenol A diglycidyl ether	2414889-39-5	10-20	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Aquatic Chronic 2 H411
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	2.5-10	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480151-50	2.5-10	Acute Tox. 4 H302 Acute Tox. 4 H332 Skin Corr. 1B H314 Skin Sens. 1B H317 Eye Dam. 1 H318 Aquatic Chronic 3 H412 EUH071
Bisphenol A	80-05-7 201-245-8	2.5-10	Eye Dam. 1 H318 Skin Sens. 1 H317

	604-030-00-0 01-2119457856-23		STOT SE 3 H335 Repr. 1B H360F Aquatic Chronic 2 H411
[Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine] reaction products with glycidyl tolyl ether	Exempt from registration – REACH Annex V	2.5-10	Eye Dam. 1 H318 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 603-069-00-0 01-2119560597-27	2.5-10	Acute Tox. 4 H302 Skin Corr. 1C H314 Eye Dam. 1 H318
3-aminopropyldimethylamine	109-55-7 203-680-9 612-061-00-6 01-2119486842-27	2.5-10	Flam. Liq. 3 H226 Acute Tox. 4 H302 Acute Tox. 4 H312 Skin Corr. 1B H314 Skin Sens. 1B H317 Eye Dam. 1 H318 STOT SE 3 H335
Salicylic acid	69-72-7 200-712-3 607-732-00-5 01-2119486984-17	< 2.5	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d
3-aminopropyltriethoxysilane	919-30-2 213-048-4 612-108-00-0 01-2119480479-24	< 2.5	Acute Tox. 4 H302 Skin Corr. 1B H314 Skin Sens. 1 H317 Eye Dam. 1 H318

See section 16 for full list of H statements

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Flush thoroughly with water, including under eyelids for at least 15 minutes. Obtain immediate medical attention.
INHALATION: Remove from exposure. If breathing becomes difficult get immediate medical attention.
SKIN CONTACT: Wash off with soap and water. Seek immediate medical attention.
INGESTION: If swallowed, rinse mouth with water and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause skin burns and severe eye damage. May cause an allergic skin reaction in sensitive individuals.

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, powders, carbon dioxide
Unsuitable extinguishing media: Water jet

5.2 Special hazards arising from the substance or mixture

Prevent fire-fighting water from entering drains and watercourses.

5.3 Advice for fire fighters

Fire fighters should wear protective clothing and positive pressure self-contained breathing apparatus as appropriate.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Evacuate unnecessary personnel. Ensure adequate ventilation. Do not breathe mists or vapours, use respiratory protection if ventilation is inadequate. Use eye protection (goggles recommended) and gloves suitable for epoxy resins (see section 8).

6.2 Environmental precautions
Prevent entry into sewers and watercourses.

6.3 Methods and materials for containment and clearing up
Absorb liquid onto sand, earth or other suitable absorbent material. Collect into a suitable labelled container for disposal. Wash spill area thoroughly with water and detergent to remove residues. Prevent washings from entering water courses.

6.4 References to other sections
See section 8 and 13 for further advice.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Ensure adequate ventilation. Do not breathe vapours or mists. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities
Store in its original labelled container in a cool, dry, well ventilated area. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children and animals.

7.3 Specific end uses(s)
No special precautions. Use only as directed in accordance with the label.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

No occupational exposure limits identified

DNELS

Substance Name	Worker	
	Long term dermal effects	Long term inhalation effects
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	1.1 mg/kg bw/day	3.9 mg/m3
Benzyl alcohol	8 mg/kg bw/day	22 mg/m3
3-Aminomethyl-3,5,5- trimethylcyclohexylamine	—	0.073 mg/m3
m-phenylenebis(methylamine)	0.33 mg/kg bw/day	1.2 mg/m3
Bisphenol A	0.031 mg/kg bw/day	2 mg/m3
2,4,6-tris(dimethylaminomethyl)phenol	0.15 mg/kg bw/day	0.13 mg/m3
3-aminopropyldimethylamine	—	1.2 mg/m3
Salicylic acid	2.3 mg/kg bw/day	5 mg/m3
3-aminopropyltriethoxysilane	—	59 mg/m3

PNECS

PNEC	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Benzyl alcohol	3-Amino methyl-3,5,5-trimethyl cyclohexyl amine	m-phenylene bis(methyl amine)	Bisphenol A	2,4,6-tris (dimethyl amino methyl) phenol	3-amino propyl dimethyl amine	Salicylic acid
PNEC aqua (freshwater):	0.004 mg/l	1 mg/l	0.06 mg/l	0.094 mg/l	0.018 mg/l	0.084 mg/l	0.073 mg/l	0.2 mg/l
PNEC aqua (marine water):	0.0004 mg/l	0.1 mg/l	0.006 mg/l	0.009 mg/l	0.016 mg/l	0.008 mg/l	0.007mg/l	0.02 mg/l

8.2 Exposure controls

Engineering controls: None usually required for handling outside. Indoors, ensure adequate ventilation, especially in confined areas. Ensure good level of basic ventilation with at least 1-3 air exchanges per hour.

Respiratory protection: None usually required unless ventilation rate is not possible to achieve. In case of insufficient ventilation: respirator with a vapour filter (EN 141). recommended Filter Type A / P2

Hand Protection: In case of contact, wear gloves suitable for epoxy resin liquids.
Suggested glove materials: ; nitrile rubber, fluorocarbon rubber (Viton), PVC
Glove manufacturers recommendations should always be consulted.

Eye protection: Tightly fitting goggles recommended.

Skin protection: Coveralls.

Environmental Exposure Controls: Prevent entry into drains and watercourses.

Risk Management Measures:
Covers indoor and outdoor use
Room size 100 m^2
Physcial form of product: low volatile liquid
Vapour pressure: < 7Pa at 20°C
Assumes process temperature up to 20°C
Ventilation rate: Indoors with good natural ventilation

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Physical state:	Liquid
b) Colour:	Yellowish
c) Odour:	Amine like
d) Melting point:	No data available
e) Boiling point:	Initial boiling point approx. 135°
f) Flammability:	Not applicable, product is a liquid
g) Upper/lower flammability limits:	No data available
h) Flashpoint:	> 100°C
i) Autoignition temperature:	380°C

j) Decomposition temperature:	No data available
k) pH:	Not applicable
l) Viscosity, dynamic:	1000 mPa.S
m) Solubility:	Not miscible
n) Partition coefficient (log Kow):	No data available
o) Vapour pressure:	0.07 hPa
p) Density and/or relative density:	1.02 g/cm^3
q) Relative vapour density:	No data available
r) Particle characteristics	Not applicable, product is a liquid

9.2 Other information
None

SECTION 10: Stability and Reactivity

10.1 Reactivity
No reactive hazards known, but will react with curing agents and certain catalysts and set to solid form

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
None.

10.4 Conditions to avoid
Avoid exposure to moisture and high temperatures.

10.5 Incompatible materials
Avoid contact with strong oxidisers, acids and bases.

10.6 Hazardous decomposition products
None under normal conditions of use. On combustion or thermal decomposition: Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Isocyanates, Hydrogen cyanide.

SECTION 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	Based on available data, the classification criteria are not met.
(b) skin corrosion/irritation	Based on available data, the mixture is classified as corrosive to skin.
(c) serious eye damage/irritation	Based on available data, the mixture is classified as corrosive to eyes.
(d) respiratory/skin sensitisation	Based on available data, the mixture is classified as a skin sensitiser
(e) germ cell mutagenicity	Based on available data, the classification criteria are not met.
(f) carcinogenicity	Based on available data, the classification criteria are not met.
(g) reproductive toxicity	Based on available data, the mixture is classified as toxic to reproduction.
(h) STOT-single exposure	Based on available data, the classification criteria are not met
(i) STOT-repeated exposure	Based on available data, the classification criteria are not met.
(j) aspiration hazard	Based on available data, the classification criteria are not met.

11.2 Information on other hazards
No additional information.

SECTION 12: Ecological Information

12.1 Toxicity
The mixture contains several components that are considered to be toxic to aquatic life.

12.2 Persistence and degradability
Not considered to be readily biodegradable.

12.3 Bioaccumulative potential
Not considered to be bioaccumulative.

12.4 Mobility in soil
Expected to be of low mobility.

12.5 Results of PBT and vPvB assessment
None of the components are known to be PBT or vPvB.

12.6 Endocrine disrupting properties
None of the components are known to have endocrine disrupting properties.

12.7 Other adverse effects
None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
Recover and recycle unused product if possible. If recovery and recycling are not possible incinerate or dispose of in accordance with local and national regulations.

SECTION 14: Transport Information

Not considered to be dangerous goods for transport.

	ADR	**IMDG**	**ICAO**
14.1 UN Number	2735	2735	2735
14.2 UN Proper shipping name	Amines, liquid, corrosive, n.o.s. (N,N-dimethylaminopropane, 1.3-Benzoldimethanine)	Amines, liquid, corrosive, n.o.s. (N,N-dimethylaminopropane, 1.3-Benzoldimethanine)	Amines, liquid, corrosive, n.o.s. (N,N-dimethylaminopropane, 1.3-Benzoldimethanine)
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes	Yes	Yes
14.6 Special precautions for user	—	EmS F-A. S-B	—
14.7 Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
All components are listed as existing substances in Europe
All components are considered compliant with REACH

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:
This is a new SDS

List of Abbreviations used in this SDS:
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
EC European Community/Commission
PBT Persistent, Bioaccumulative and Toxic
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB very Persistent, very Bioaccumulative

References:
Source: European Chemicals Agency, http://echa.europa.eu/

Method used for classification of mixtures:
Ingredient based approaches

H Statements used in Section 3
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Training requirements for workers
No special training requirements