

SAFETY DATA SHEET

VanGuard HD 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**
VanGuard HD 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:
E mail:
Web: www.vubaresinproducts.com
- 1.4 Emergency telephone number**
In case of emergency Tel. (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:

Acute Tox. 4 H302 Harmful if swallowed
Acute Tox 4 H332 Harmful if inhaled
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
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects

2.2 Label elements



Danger

H302 + H332 Harmful if swallowed or if inhaled
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects
P261 Avoid breathing mist/ vapours/spray.

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:

Benzyl alcohol

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether

3-Aminomethyl-3,5,5-trimethylcyclohexylamine

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
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	>= 30 - < 50	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319
4,4'-Isopropylidenediphenol, oligomeric reaction products with, 1-chloro-2,3-epoxypropane, reaction products with, mphenylenebis(methylamine)	113930-69-1 500-302-7 01-2119965162-39	>= 25 - < 30	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411
1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether	90194-04-0 290-611-0 01-2120770491-54	>= 10 - < 20	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	>= 10 - < 20	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412
Phenol, styrenated	61788-44-1 262-975-0 01-2119979575-18	>= 2.5 - < 10	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411
Salicylic acid	69-72-7 200-712-3 607-732-00-5 01-2119486984-17	>= 1 - < 3	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d
Benzyl dimethylamine	103-83-3 203-149-1 612-074-00-7 01-2119529232-48	>= 1 - < 2.5	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314

			Eye Dam. 1; H318 Aquatic Chronic 3; H412
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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	Short term dermal effects	Short term inhalation effects
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	—	—	—	20.1 mg/m ³
Benzyl alcohol	8 mg/kg bw/day	22 mg/m ³	40 mg/kg bw/day	110 mg/m ³
Benzyl dimethylamine	1.4 mg/kg bw/day	4.9 mg/m ³	2.8 mg/kg bw/day	9.9 mg/m ³
Salicylic acid	2.3 mg/kg bw/day	5 mg/m ³	—	—

PNECS

PNEC	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	Benzyl alcohol	Benzyl dimethylamine	Salicylic acid
PNEC aqua (freshwater):	0.06 mg/l	1 mg/l	0.005 mg/l	0.2 mg/l
PNEC aqua (marine water):	0.006 mg/l	0.1 mg/l	0.0005 mg/l	0.02 mg/l
PNEC aqua (intermittent releases):		2.3 mg/l		
PNEC sediment (freshwater):	5.784 mg/kg dry weight (d.w.)	5.27 mg/kg	0.071 mg/kg dry weight (d.w.)	1.42 mg/kg dry weight (d.w.)
PNEC sediment (marine water):	0.578 mg/kg dry weight (d.w.)	0.527 mg/kg	0.007 mg/kg dry weight (d.w.)	0.142 mg/kg dry weight (d.w.)
PNEC soil:	1.121 mg/kg dry weight (d.w.)	0.456 mg/kg	0.011 mg/kg dryweight (d.w.)	0.166 mg/kg dry weight (d.w.)
PNEC STP:	3.18 mg/l	39 mg/l	534 mg/l	162 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 / P

Hand Protection: In case of contact, wear gloves suitable for epoxy resin liquids. Suggested glove materials: butyl rubber, breakthrough time > 8 h; nitrile rubber, breakthrough time 10-480 min; Ethyl Vinyl Alcohol Laminate (EVAL), breakthrough time > 8 h. 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.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Physical state:	Liquid
b) Colour:	Colourless
c) Odour:	Odourless
d) Melting point:	No data available
e) Boiling point:	No data available
f) Flammability:	Not applicable, product is a liquid
g) Upper/lower flammability limits:	No data available
h) Flashpoint:	> 130°C closed cup
i) Autoignition temperature:	No data available
j) Decomposition temperature:	No data available
k) pH:	Not applicable
l) Viscosity, dynamic:	220 - 320 mPa.s at 25 °C
m) Solubility:	Partly soluble.
n) Partition coefficient (log Kow):	No data available
o) Vapour pressure:	No data available
p) Density and/or relative density:	Approx. 1 at 20°C
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 (NO_x), 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 mixture is classified as harmful if swallowed and inhaled. ATEmixture (calculated) (oral) 1336 mg/kg ATEmixture (calculated) (dermal) >2000 ATEmixture (calculated) (inhalation, dust/mist) 4.21 mg/l
(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 classification criteria are not met.
(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.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine):

LL50 (Oncorhynchus mykiss (rainbow trout)): 64 mg/l	Exposure time: 96 h	Test Type: static test	OECD Test Guideline 203
EL50 (Daphnia magna (Water flea)): 1.46 mg/l	Exposure time: 48 h	Test Type: static test	OECD Test Guideline 202
EL50 (Pseudokirchneriella subcapitata (algae)): > 30 mg/l	Exposure time: 72 h	Test Type: static test	OECD Test Guideline 201
EC50 (activated sludge): 888.9 mg/l	Exposure time: 3 h	Test Type: static test	OECD Test Guideline 209

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether:

LL50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l	Exposure time: 96 h		OECD Test Guideline 203
EL50 (Daphnia magna (Water flea)): 3.9 mg/l	Exposure time: 48 h	Test Type: static test	OECD Test Guideline 202
EL50 (Pseudokirchneriella subcapitata (green algae)): 1.1 mg/l	Exposure time: 72 h	Test Type: semi-static test	OECD Test Guideline 201

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. (ISOPHORONE DIAMINE, M-XYLYLENE DIAMINE)	Amines, liquid, corrosive, n.o.s. (ISOPHORONE DIAMINE, M-XYLYLENE DIAMINE)	Amines, liquid, corrosive, n.o.s. (ISOPHORONE DIAMINE, M-XYLYLENE DIAMINE)
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