

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

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

1.1. Product identifier

Product name: VANDEX FLEXTAPE ADHESIVE G Comp. A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

epoxy glue

Uses advised against

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Supplier:	Vandex International Ltd / Vandex AG
Vandex Isoliermittel-Gesellschaft m.b.H.	P.O. Box / Rötistrasse 6
Industriestraße 21	CH-4500 Solothurn
D-21493 Schwarzenbek	Phone: +41 32 626 36 36
Phone: +49 4151 89 15-0	Fax: +41 32 626 36 37
Fax: +49 4151 89 15 50	Telephone number is available during office hours only.

For further information, please contact: ehs@vandex.com

1.4. Emergency telephone number:

Poison Nord / +49 551 19240 (24 h available, English/German)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Bisphenol F-epoxy resin

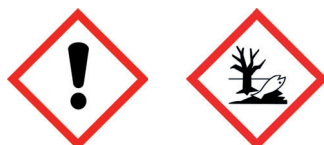
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

Signal word: Warning

Pictograms:



Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.
 Restricted to professional users.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
 formulated epoxy resin.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			20 - < 25 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
9003-36-5	Bisphenol F-epoxy resin			5 - < 10 %
	500-006-8		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411			
14808-60-7	silicon dioxide			5 - < 10 %
	238-878-4			
	STOT RE 2; H373			
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)			1 - < 5 %
	618-939-5		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			1 - < 5 %
	271-846-8	603-103-00-4	01-2119485289-22	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
100-51-6	benzyl alcohol			1 - < 5 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319			
123-26-2	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)			1 - < 5 %
	204-613-6		01-2119978265-26	
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412			

Full text of H and EUH statements: see section 16.

Further Information

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

For more information about together and separate storage: refer to TRGS 510

Further information on storage conditions

- Recommended storage temperature: 10 - 30 °C
- Keep/Store only in original container.
- Store in a dry place.

7.3. Specific end use(s)

Further remarks:

Information System of the Professional Association of construction industry see on www.gisbau.de

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
Worker DNEL, long-term	inhalation	systemic	12,25 mg/m ³	
Worker DNEL, acute	inhalation	systemic	12,25 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	8,33 mg/kg bw/day	
9003-36-5	Bisphenol F-epoxy resin			
Worker DNEL, long-term	dermal	systemic	104,15 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	29,39 mg/m ³	
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)			
Worker DNEL, long-term	inhalation	systemic	10,57 mg/m ³	
Worker DNEL, acute	inhalation	systemic	10,57 mg/m ³	
Worker DNEL, acute	inhalation	local	0,44 mg/m ³	
Worker DNEL, long-term	dermal	local	0,0226 mg/cm ²	
Worker DNEL, acute	dermal	local	0,0226 mg/cm ²	
Worker DNEL, long-term	dermal	systemic	6 mg/kg bw/day	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Worker DNEL, long-term	dermal	systemic	1,0 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	3,6 mg/m ³	
100-51-6	benzyl alcohol			
Worker DNEL, long-term	inhalation	systemic	22 mg/m ³	
Worker DNEL, acute	inhalation	systemic	110 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

PNEC values

CAS No	Substance		Value
Environmental compartment			
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane		
	Freshwater		0,006 mg/l
	Marine water		0,001 mg/l
	Freshwater sediment		0,341 mg/kg
	Marine sediment		0,034 mg/kg
	Soil		0,065 mg/kg
9003-36-5	Bisphenol F-epoxy resin		
	Freshwater		0,003 mg/l
	Marine water		0,000 mg/l
	Freshwater sediment		0,294 mg/kg
	Marine sediment		0,029 mg/kg
	Soil		0,237 mg/kg
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)		
	Freshwater		0,011 mg/l
	Marine water		0,001 mg/l
	Freshwater sediment		0,283 mg/kg
	Marine sediment		0,028 mg/kg
	Soil		0,223 mg/kg
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.		
	Freshwater		0,106 mg/l
	Marine water		0,01 mg/l
	Freshwater sediment		307,16 mg/kg
	Marine sediment		30,72 mg/kg
	Soil		1,234 mg/kg
100-51-6	benzyl alcohol		
	Freshwater		1 mg/l
	Marine water		0,1 mg/l
	Freshwater sediment		5,27 mg/kg
	Marine sediment		0,527 mg/kg
	Soil		0,456 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommendation to EN 374: For short time use or protection against splashes: Butyl rubber / nitrile rubber (0.4 mm), contaminated gloves should be changed and disposed. Suitable for permanent exposure: Viton gloves (0.4 mm) Break through time > 30 min.

Skin protection

Wear suitable protective clothing. Recommendation: Safety shoes according to EN ISO 20345, long pants and long-sleeved work shirt; with mixing and stirring work additional rubber apron and protective boots according to EN 14605

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: pasty
Colour: pigmented
Odour: slightly.

Test method

pH-Value: No information available.

Flash point: >93 °C calculated.

Explosive properties

No information available.

Ignition temperature: No information available.

Decomposition temperature: No information available.

Oxidizing properties

No information available.

Vapour pressure: No information available.

Density: not measurable

Water solubility: No information available.

Solubility in other solvents

No information available.

Partition coefficient: No information available.

Viscosity / dynamic: tixotrope

Vapour density: No information available.

Evaporation rate: No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		
9003-36-5	Bisphenol F-epoxy resin				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)				
	oral	LD50 2189 mg/kg	Rat (OECD 401)	ECHA Dossier	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
	oral	LD50 >10000 mg/kg	Rat		
100-51-6	benzyl alcohol				
	oral	LD50 1570 mg/kg	Rat	ECHA Dossier	
123-26-2	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)				
	oral	LD50 > 2000 mg/kg	Rat	ECHA Dossier	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxy)phenyl]propane; Bisphenol F-epoxy resin; Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2); oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide))

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

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.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	Acute fish toxicity	LC50 1,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout) (OECD 203)	ECHA Dossier	
9003-36-5	Bisphenol F-epoxy resin					
	Acute fish toxicity	LC50 2,54 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 1,8 mg/l	72 h	algae.		
	Acute crustacea toxicity	EC50 2,55 mg/l	48 h	Daphnia magna (Big water flea)		
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)					
	Acute fish toxicity	LC50 30 mg/l	96 h	Leuciscus idus (Golddorfe)	ECHA Dossier	
	Acute crustacea toxicity	EC50 47 mg/l	48 h	Daphnia magna (big water flea)	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	5 %	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)			
	OECD 301D/ EEC 92/69/V, C.4-E	47 %	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
	OECD 301 F	87%	28	
	Readily biodegradable (according to OECD criteria).			
100-51-6	benzyl alcohol			
	OECD 301D/ EEC 92/69/V, C.4-E	95%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
123-26-2	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)			
	OECD 301D/ EEC 92/69/V, C.4-E	22 %	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	3,8
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	>3
100-51-6	benzyl alcohol	1,1

BCF

CAS No	Chemical name	BCF	Species	Source
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	100-3000		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number:** UN 3082
- 14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
- 14.3. Transport hazard class(es):** 9
- 14.4. Packing group:** III
- Hazard label: 9

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Marine transport (IMDG)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Marine pollutant:	Yes
Special Provisions:	274, 335, 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	yes
Danger releasing substance:	epoxy resin

14.6. Special precautions for user

No information available.

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

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Information according to 2012/18/EU (SEVESO III):	E2 Hazardous to the Aquatic Environment
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Additional information

Prohibition/Restriction:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV): not applicable

REACH Information: All substances contained in our Products are preregistered or registered by our upstream suppliers, and/or preregistered or registered by us, and/or excluded from the regulation, and/or exempted from the registration.

National regulatory information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. A

Revision date: 17.10.2019

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Bisphenol F-epoxy resin
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
benzyl alcohol

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 3.

Abbreviations and acronyms

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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (lung) through prolonged or repeated exposure if inhaled.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH205 Contains epoxy constituents. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

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

1.1. Product identifier

Product name: VANDEX FLEXTAPE ADHESIVE G Comp. B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

epoxy glue

Uses advised against

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Supplier:	Vandex International Ltd / Vandex AG
Vandex Isoliermittel-Gesellschaft m.b.H.	P.O. Box / Rötistrasse 6
Industriestraße 21	CH-4500 Solothurn
D-21493 Schwarzenbek	Phone: +41 32 626 36 36
Phone: +49 4151 89 15-0	Fax: +41 32 626 36 37
Fax: +49 4151 89 15 50	Telephone number is available during office hours only.

For further information, please contact: ehs@vandex.com

1.4. Emergency telephone number: Poison Nord / +49 551 19240 (24 h available, English/German)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1A

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Cashew, nutshell liq.

1,3-Bis(aminomethyl)benzene, m-xylylenediamine

Carbomonocyclic alkylated mixtures of poly-aza-alcanes, hydrogenated

1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether

2,4,6-tris(dimethylaminomethyl)phenol

3-aminopropyl dimethylamine, N,N-dimethyl-1,3-diaminopropane

3-aminopropyl diethylamine; N,N-diethyl-1,3-diaminopropane

Amines, polyethylenepoly-, triethylenetetramine fraction

Signal word: Danger

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

Pictograms:



Hazard statements

- H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

Special labelling of certain mixtures

- EUH071 Corrosive to the respiratory tract.
Restricted to professional users.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

formulated polyamine hardener

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			10 - < 15 %
	220-666-8	612-067-00-9	01-2119514687-32	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H318 H317 H412			
8007-24-7	Cashew, nutshell liq.			5 - < 10 %
	232-355-4			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A, Aquatic Chronic 3; H312 H315 H318 H317 H412			
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xylylenediamine			5 - < 10 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412 EUH071			
1173092-74-4	Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated			1 - < 5 %
	Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1; H314 H318 H317			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			1 - < 5 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether			1 - < 5 %
	282-199-6		01-2120762088-49	
	Acute Tox. 4, Skin Corr. 1C, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H317 H400 H410			
100-51-6	benzyl alcohol			1 - < 5 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			< 1 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1B; H302 H314 H318 H317			
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane			< 1 %
	203-680-9	612-061-00-6	01-2119486842-27	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1; H226 H312 H302 H314 H318 H317			
104-78-9	3-aminopropyldiethylamine; N,N-diethyl-1,3-diaminopropane			< 1 %
	203-236-4	612-062-00-1	01-2119965402-39	
	Flam. Liq. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H226 H311 H302 H314 H317			
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction			< 1 %
	292-588-2		01-2119487919-13	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H318 H317 H412			

Full text of H and EUH statements: see section 16.

Further Information

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8). Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

For more information about together and separate storage: refer to TRGS 510

Further information on storage conditions

- Recommended storage temperature: 10 - 30 °C
- Keep/Store only in original container.
- Store in a dry place.

7.3. Specific end use(s)

Further remarks:

Information System of the Professional Association of construction industry see on www.gisbau.de

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL, long-term	inhalation	local	0,073 mg/m ³	
Worker DNEL, acute	inhalation	local	0,073 mg/m ³	
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xylylenediamine			
Worker DNEL, long-term	inhalation	systemic	1,2 mg/m ³	
Worker DNEL, long-term	inhalation	local	0,2 mg/m ³	
Worker DNEL, long-term	dermal	systemic	0,33 mg/kg bw/day	
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether			
Worker DNEL, long-term	inhalation	systemic	2,35 mg/m ³	
Worker DNEL, long-term	dermal	systemic	0,666 mg/kg bw/day	
100-51-6	benzyl alcohol			
Worker DNEL, long-term	inhalation	systemic	22 mg/m ³	
Worker DNEL, acute	inhalation	systemic	110 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day	
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane			
Worker DNEL, long-term	inhalation	systemic	1,2 mg/m ³	
Worker DNEL, long-term	inhalation	local	1,2 mg/m ³	
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction			
Worker DNEL, long-term	inhalation	systemic	0,54 mg/m ³	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

PNEC values

CAS No	Substance	Value
Environmental compartment		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Freshwater		0,06 mg/l
Marine water		0,006 mg/l
Freshwater sediment		5,784 mg/l
Marine sediment		0,578 mg/l
Soil		1,121 mg/l
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xyllylenediamine	
Freshwater		0,094 mg/l
Marine water		0,009 mg/l
Freshwater sediment		12,4 mg/kg
Marine sediment		1,24 mg/kg
Soil		2,44 mg/kg
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
Freshwater		0,084 mg/l
Marine water		0,008 mg/l
100-51-6	benzyl alcohol	
Freshwater		1 mg/l
Marine water		0,1 mg/l
Freshwater sediment		5,27 mg/kg
Marine sediment		0,527 mg/kg
Soil		0,456 mg/kg
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
Freshwater		0,084 mg/l
Marine water		0,008 mg/l
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane	
Freshwater		0,073 mg/l
Marine water		0,007 mg/l
Freshwater sediment		0,735 mg/kg
Marine sediment		0,073 mg/kg
Soil		0,104 mg/kg
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	
Freshwater		0,027 mg/l
Marine water		0,003 mg/l
Freshwater sediment		8,572 mg/kg
Marine sediment		0,857 mg/kg
Soil		1,25 mg/kg

8.2. Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

technical means. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommendation to EN 374: For short time use or protection against splashes: Butyl rubber / nitrile rubber (0.4 mm), contaminated gloves should be changed and disposed. Suitable for permanent exposure: Viton gloves (0.4 mm) Break through time > 30 min.

Skin protection

Wear suitable protective clothing. Recommendation: Safety shoes according to EN ISO 20345, long pants and long-sleeved work shirt; with mixing and stirring work additional rubber apron and protective boots according to EN 14605

Respiratory protection

To follow: EN 689 - Methods for determining inhalation exposure In case of inadequate ventilation wear respiratory protection. Organic vapor filter (Type A) The selection of respirators (EN 14387) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits (sections 8.1) of the selected respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: pasty
Colour: white
Odour: Amine-like

Test method

pH-Value: No information available.

Flash point: 94 °C calculated.

Explosive properties

No information available.

Ignition temperature: No information available.

Decomposition temperature: No information available.

Oxidizing properties

No information available.

Vapour pressure: No information available.

Density: not measurable

Water solubility: No information available.

Solubility in other solvents

No information available.

Partition coefficient: No information available.

Viscosity / dynamic: tixotrope

Vapour density: No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

Evaporation rate:

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	LD50 mg/kg 1030	Rat (OECD 401)	ECHA Dossier	
	dermal	ATE mg/kg 1100			
	inhalation (4 h) aerosol	LC50 mg/l >5,01	Rat (OECD 403)	ECHA Dossier	
8007-24-7	Cashew, nutshell liq.				
	dermal	ATE mg/kg 1100			
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xylylenediamine				
	oral	LD50 mg/kg 930	Rat (OECD 401)	ECHA Dossier	
	dermal	LD50 mg/kg >3100	Rat (OECD 402)	ECHA Dossier	
	inhalation vapour	ATE mg/l 11			
	inhalation (4 h) aerosol	LC50 mg/l 1,34	Rat (OECD 403)	ECHA Dossier	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	ATE mg/kg 500			
84144-79-6	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether				
	oral	ATE mg/kg 500			
100-51-6	benzyl alcohol				
	oral	LD50 mg/kg 1570	Rat	ECHA Dossier	
	inhalation vapour	ATE mg/l 11			
	inhalation aerosol	ATE mg/l 1,5			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	ATE mg/kg 500			
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane				
	oral	LD50 mg/kg 410	Rat (OECD 401)	ECHA Dossier	
	dermal	ATE mg/kg 1100			
	inhalation (4 h) vapour	LC50 mg/l 24,8	Rat	ECHA Dossier	
104-78-9	3-aminopropyldiethylamine; N,N-diethyl-1,3-diaminopropane				
	oral	LD50 mg/kg 550	Rat	GESTIS	
	dermal	LD50 mg/kg 615	Rabbit	GESTIS	
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction				
	oral	LD50 mg/kg 1716	Rat (OECD 401)	ECHA Dossier	
	dermal	LD50 mg/kg 1465	Rabbit (OECD 402)	ECHA Dossier	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

Irritation and corrosivity

Causes severe skin burns and eye damage.
Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; Cashew, nutshell liq.; 1,3-Bis(aminomethyl)benzene, m-xylylenediamine; Carbomonocyclic alkylated mixtures of poly-aza-alcanes, hydrogenated; 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether; 2,4,6-tris(dimethylaminomethyl)phenol; 3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane; 3-aminopropyldiethylamine; N,N-diethyl-1,3-diaminopropane; Amines, polyethylenepoly-, triethylenetetramine fraction)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	Acute algae toxicity	ErC50 37 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 23 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier	
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xylylenediamine					
	Acute fish toxicity	LC50 mg/l 87,6	96 h	Oryzias latipes (OECD 203)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l 20,3	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l 15,2	48 h	Daphnia magna (OECD 202)	ECHA Dossier	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol					
	Acute fish toxicity	LC50 175 mg/l	96 h	Cyprinus carpio	ECHA Dossier	
	Acute crustacea toxicity	EC50 718 mg/l	48 h	Palaemonetes vulgaris	ECHA Dossier	
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane					
	Acute fish toxicity	LC50 122 mg/l	96 h	Leuciscus idus melanotus (OECD 203)	ECHA Dossier	
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction					
	Acute algae toxicity	ErC50 20 mg/l	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l 31,1	48 h	Daphnia magna	ECHA Dossier	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Biodegradation	8%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xylylenediamine	OECD 301 B	49%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
100-51-6	benzyl alcohol	OECD 301D/ EEC 92/69/V, C.4-E	95%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	OECD 301D/ EEC 92/69/V, C.4-E	4%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	90-100%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1477-55-0	1,3-Bis(aminomethyl)benzene, m-xylylenediamine	0,18
100-51-6	benzyl alcohol	1,1
109-55-7	3-aminopropyldimethylamine, N,N-dimethyl-1,3-diaminopropane	-0,352
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	-2,65

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2735
14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(3-aminomethyl-3,5,5-trimethylcyclohexylamine;
1,3-Bis(aminomethyl)benzene, m-xylylenediamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Marine transport (IMDG)

14.1. UN number: UN 2735
14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(1,3-Bis(aminomethyl)benzene, m-xylylenediamine;
3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Marine pollutant: Yes
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether

14.6. Special precautions for user

No information available.

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

not applicable

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: 3-aminopropyl-diethylamine; N,N-diethyl-1,3-diaminopropane

Information according to 2012/18/EU E2 Hazardous to the Aquatic Environment (SEVESO III):

Additional information

Prohibition/Restriction:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV): not applicable

REACH Information: All substances contained in our Products are preregistered or registered by our upstream suppliers, and/or preregistered or registered by us, and/or excluded from the regulation, and/or exempted from the registration.

National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water contaminating class (D):	3 - highly water contaminating
Skin resorption/Sensitization:	Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

3-aminomethyl-3,5,5-trimethylcyclohexylamine
1,3-Bis(aminomethyl)benzene, m-xylylenediamine
benzyl alcohol
Titanium dioxide
2,4,6-tris(dimethylaminomethyl)phenol
3-aminopropyl-dimethylamine, N,N-dimethyl-1,3-diaminopropane

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,9,12,14,15.

Abbreviations and acronyms

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 Harmonized 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE G Comp. B

Revision date: 29.10.2019

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1A; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)