

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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

1.1. Product identifier

Product name: VANDEX FLEXTAPE ADHESIVE TW Comp. A

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

Use of the substance/mixture

Concrete adhesive

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 Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

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

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

Bisphenol F-epoxy resin

1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether

Signal word: Danger

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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.
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

EUH205	Contains epoxy constituents. May produce an allergic reaction. Restricted to professional users.
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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	25 - < 30 %		
	216-823-5	603-074-00-8	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			
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	5 - < 10 %		
	219-371-7	603-072-00-7	01-2119494060-45	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H312 H302 H315 H318 H317 H412			

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

Further Information

No information available.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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. 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.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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 ventilation 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
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1675-54-3	bis-[4-(2,3-epoxypropoxy)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
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether			
	Worker DNEL, long-term	inhalation	systemic	4,7 mg/m ³
	Worker DNEL, long-term	dermal	systemic	6,66 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	
Freshwater		0,024 mg/l
Marine water		0,002 mg/l
Freshwater sediment		0,084 mg/kg
Marine sediment		0,008 mg/kg
Soil		0,003 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.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: pasty
Colour: white
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 (at 23 °C): ca. 1,8 g/cm³ ISO 2811-2

Water solubility: No information available.

Solubility in other solvents

No information available.

Partition coefficient: No information available.

Viscosity / dynamic:
(at 23 °C) 41550 - 62300 mPa·s ISO 3219

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

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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		
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether				
	oral	LD50 1163 mg/kg	Rat (OECD 401)	ECHA Dossier	
	dermal	LD50 >2150 mg/kg	Rabbit (OECD 402)	ECHA Dossier	
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			

Irritation and corrosivity

Causes skin irritation.
Causes serious eye damage.

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; 1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether)

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxypropoxy)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)	
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether					
	Acute fish toxicity	LC50	24 mg/l	96 h	Danio rerio (OECD 203)	ECHA Dossier

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1675-54-3	bis-[4-(2,3-epoxypropoxy)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).			
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	43%	28	ECHA Dossier
	Not easily bio-degradable (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
1675-54-3	bis-[4-(2,3-epoxypropoxy)phenyl]propane	3,8
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	-0,269

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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 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
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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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

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): 2 - clearly water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
bis-[4-(2,3-epoxypropoxy)phenyl]propane
Bisphenol F-epoxy resin
1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether
Titanium dioxide

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,5,6,8,10,11.

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%

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. A

Revision date: 20.08.2019

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 Dam. 1; H318	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.
H312	Harmful in contact with skin.
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.
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 TW Comp. B

Revision date: 20.08.2019

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

1.1. Product identifier

Product name: VANDEX FLEXTAPE ADHESIVE TW Comp. B

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

Use of the substance/mixture

Concrete adhesive - Curing agent

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. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Signal word: Danger

Pictograms:



Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

H412 Harmful 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.
 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

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

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
100-51-6	benzyl alcohol			5 - < 10 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319			
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine			5 - < 10 %
	500-101-4		01-2119965165-33	
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H314 H318 H317 H412			
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)			5 - < 10 %
	500-302-7		01-2119965162-39	
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H314 H318 H317 H411			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			1 - < 5 %
	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			

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

Further information

No information available.

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).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

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

Full 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.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

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

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
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
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL, long-term		inhalation	systemic	0,493 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,14 mg/kg bw/day
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)			
Worker DNEL, long-term		inhalation	systemic	0,493 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,14 mg/kg bw/day
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

PNEC values

CAS No	Substance	Value
Environmental compartment		
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
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	
	Freshwater	0,011 mg/l
	Marine water	0,001 mg/l
	Freshwater sediment	4320 mg/kg
	Marine sediment	432 mg/kg
	Soil	864 mg/kg
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	
	Freshwater	0,001 mg/l
	Marine water	0 mg/l
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

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 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.

Eyeface 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

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: grey
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 (at 23 °C): ca. 2,2 g/cm³ ISO 2811-2

Water solubility: No information available.

Solubility in other solvents

No information available.

Partition coefficient: No information available.

Viscosity / dynamic:
(at 23 °C) 72000 - 108000 mPa·s ISO 3219

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 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

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	
100-51-6	benzyl alcohol					
	oral	LD50 mg/kg	1570	Rat	ECHA Dossier	
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			
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	

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine); 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

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

Harmful 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
100-51-6	benzyl alcohol				
		OECD 301D/ EEC 92/69/V, C.4-E	95%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with l-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine				
		OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	0%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)				
		OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	0%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
		Biodegradation	8%	28	ECHA Dossier
	Not 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
100-51-6	benzyl alcohol	1,1
38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with l-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	3,6
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	3,6

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 TW Comp. B

Revision date: 20.08.2019

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. (Isophorone diamine; 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. (Isophorone diamine; 1,3-Bis(aminomethyl)benzene, m-xylylenediamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Marine pollutant: No
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (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 (\Rightarrow 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): 2 - clearly water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

benzyl alcohol

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 3,5,6,7,8,14,16.

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%

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VANDEX FLEXTAPE ADHESIVE TW Comp. B

Revision date: 20.08.2019

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. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.)