Safety Data Sheet

REACH Regulation (EC) 1907/2006 - 2020/878

VERNIS ANTAC

Primer

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

1.1 Product identifier

Product name: VERNIS ANTAC
UFI: NM6W-40UY-900S-EKV8

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

Professional use, private use.

Application of the substance / the mixture: Bitumen emulsion

1.3. Details of the supplier of the safety data sheet

Supplier

Axter Ltd, Harbour Landing, Fox's Marina,
The Strand, Wherstead, Ipswich IP2 8NJ
Tel: +44 (0) 473 724056
Email: info@axterltd.co.uk
Website: www.axter.co.uk

1.4 Emergency telephone

Axter Ltd - +44 (0) 1473 724056
(this line is open from 8.00 am to 5.30 pm, Monday to Friday).
In the event of a medical enquiry involving this product, members of the public should contact:
NHS 111
a doctor or
a local hospital accident and emergency department.
The NPIS (National Poisons Information Service) helpline is available for enquiries from medical professionals only.
Tel: 0344 892 0111

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3	H226 Flammable liquid and vapour.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

Additional information

The full text of the classification and labelling elements mentioned is given in Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms:



GHS02 GHS07 GHS08

Signal Word Warning

Hazard-determining components of labelling

Xylene

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash 5 mins. thoroughly after handling.

Additional information

EUH208	EUH208 - Contains Fatty acids, C18 unsaturated, reaction products with diethylenetriamine. May produce an allergic reaction.

Hazard description:

Other hazards which do not lead to classification :

IMPORTANT: Fire hazard, this product contains linseed oil! Rags or other combustible absorbent materials used to apply the product or to clean up spills may ignite spontaneously. These materials must be thoroughly rinsed with water before being stored in a fire-resistant container.

2.3. Other hazards

Results of PBT and vPvB assessment
PBT/vPvB:
This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Determination of endocrine-disrupting properties
The mixture does not contain any substances included in the list established according to Article 59(1) of UK REACH for having endocrine-disrupting properties, or identified as having endocrine-disrupting properties according to the criteria set out in Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1%.

Section 3: Composition/information on ingredients

3.2. Mixtures

Dangerous components		
CAS: 1226892-43-8	Fatty acids, C18 unsaturated, reaction products with diethylenetriamine Skin Corr. 1C, H314)	< 0.015%
	Skin Corr. 1C, H314 Aquatic Chronic 1, H410 (M=100) Skin Sens. 1, H317	
CAS: 111-42-2 EINECS: 203-868-0	2,2'-Iminodiethanol	< 0.005%
	Repr. 2, H361fd; STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	
EC number: 905-588-0 Reg.nr.: 01-2119488216-32 01-2119486136-34	Xylene (isomer mix)	< 50%
	Flam. Liq. 3, H226 STOT RE 2, H373 Asp. Tox. 1, H304 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412 EUH066	

Additional information
For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General measures:
If you need to see a doctor, keep the container or label to hand.

After inhalation:
Take affected persons into fresh air and keep quiet.

After eye contact:
Rinse immediately with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eye wide open during flushing. Seek medical attention if symptoms persist.

After swallowing:
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

If you feel unwell, seek medical advice.

Inhalation may cause: irritation, coughing, shortness of breath. May cause headaches and dizziness. May cause drowsiness or dizziness. Consult a physician if breathing difficulties persist.

Repeated exposure to skin contact may cause drying or cracking of the skin.

Ingestion of this product may present a health hazard. May cause lung damage if swallowed.

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

Show this document to the doctor or emergency department.

Section 5: firefighting measures

5.1 Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

May catch fire or explode when exposed to heat. This product is flammable.

5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.
Do not intervene without suitable protective equipment.

Additional information

Eliminate all sources of ignition if safe to do so. Fight fire from a safe distance due to risk of explosion. Use caution when fighting any chemical fire. Prevent fire-fighting wastewater from contaminating the environment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from sources of ignition. Take special precautions to avoid static charges. No naked flames. No smoking.

For non-emergency personnel:

Get rid of superfluous personalities.

For emergency responders:

Provide adequate protection for cleaning crews.
Do not intervene without suitable protective equipment.
Aerate the area.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Collect in suitable containers. Rinse with plenty of water. Subsequent treatment of spills.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7: Handling and storage

7.1 Precautions for safe handling:

Use only outdoors or in a well-ventilated area. Eliminate all sources of ignition if safe to do so. Wear personal protective equipment. Avoid contact with eyes, skin or clothing. Take precautions against electrostatic discharge.

Information about fire and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles:

Keep only in original container in a cool, well-ventilated place away from: Heat sources. Keep containers closed when not in use. Keep container tightly closed.

Information about storage in one common storage facility:

No special measures required.

Further information about storage conditions:

Keep out of direct sunlight and away from all sources of heat.

7.3 Specific end use(s):

No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace	
111-42-2 Diethanolamine	VME [mg/m³]; 15 mg/m³ VME [ppm]; 3 ppm
DNELs	
111-42-2 Diethanolamine	
Worker	Systemic effects - dermal: 0.13 mg/kg body weight/day Systemic effects - inhalation: 0.75 mg/m³ Local effects - inhalation: 0.5 mg/m³
General population	Systemic effects - oral: 0.06 mg/kg body weight/day Systemic effects - dermal: 0.07 mg/kg body weight/day Systemic effects - inhalation: 0.125 mg/m³ Local effects - inhalation: 0.125 mg/m³
1226892-43-8 Fatty acids, C18 unsaturated, reaction products with diethylenetriamine	
Worker	Systemic effects - dermal: 0.25 mg/kg body weight/day Systemic effects - inhalation: 1.7 mg/m³
General population	Systemic effects - oral: 0.18 mg/kg body weight/day Systemic effects - dermal: 0.18 mg/kg body weight/day Systemic effects - inhalation: 0.6 mg/m³

Xylene	
Worker	Long-term - Systemic effects - dermal: 180 mg/kg body weight/day Long-term - Systemic effects - inhalation: 77 mg/m³ Long-term - Local effects - inhalation: 221 mg/m³ Acute - Systemic effects - inhalation: 289 mg/m³ Acute - Local effects - inhalation: 289 mg/m³
General population	Long-term - Systemic effects - oral: 1.6 mg/kg body weight/day Long-term - Systemic effects - dermal: 108 mg/kg body weight/day Long-term - Systemic effects - inhalation: 14.8 mg/m³ Acute - Systemic effects - inhalation: 174 mg/m³ Acute - Local effects - inhalation: 174 mg/m³

PNECs	
Xylene	
Freshwater	0.327 mg/l
Seawater	0.327 mg/l
STP	6.58 mg/l
Sediment (Fresh water)	12.46 mg/kg
Sediment (Seawater)	12.46 mg/kg
Soil	2.31 mg/kg
1226892-43-8 Fatty acids, C18 unsaturated, reaction products with diethylenetriamine	
Fresh water	25.4 µg/l
Seawater	2.54 µg/l
STP	5.57 mg/l
Sediment (freshwater)	99.4 mg/kg dry weight
Sediment (seawater)	9.94 mg/kg dry weight
Soil	9.44 mg/kg dry weight
111-42-2 Diethanolamine	
Fresh water	0.021 mg/l
Seawater	0.002 mg/l
STP	100.0 mg/l
Sediment (Freshwater)	0.092 mg/kg dry weight
Sediment (Seawater)	0.009 mg/kg dry weight
Soil	1.63 mg/kg dry weight

Additional information

The lists valid during the making were used as basis.

8.2. Exposure controls

Appropriate engineering controls:
During spraying wear suitable respiratory equipment.

Individual protection measures, such as personal equipment

General protective and hygienic measures
Wash hands before breaks and at the end of work.



Respiratory protection
Ensure adequate ventilation. High gas/vapour conc.: gas mask, filter type A.

Hand protection
Protective gloves.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break through time should be determined by the manufacturer of the protective gloves and must be observed.

Eye/face protection
Tightly sealed goggles.

Body protection
Protective work clothing.

Other
Do not eat, drink or smoke whilst handling this product.
Avoid contact with the substance during pregnancy or whilst breastfeeding.

Environmental exposure controls
Avoid release into the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties General information:

Physical state	Liquid.
Colour	Black.
Odour	Aromatic.
Odour threshold	Not determined.
Melting point/freezing point	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.

Lower and upper explosion limit

Lower	Not determined.
Upper	7.1 vol %
Flash point	23 - 29°C
Auto-ignition temperature	465°C (Xylene (isomer mix))
Decomposition temperature	Not determined.
pH	Mixture is non-polar/aprotic.

Viscosity

Kinetic viscosity at 20°C	31 mm^2/s
Dynamic	Not determined.

Solubility

Water	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure	Not determined.

Density and/or relative density

Density at 20 °C	0.94 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.

9.2. Other information

Appearance

Form	Fluid.
Ignition temperature	Product is not self-igniting.
Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Solvent content

Organic solvents	< 50.0 %
VOC (EC)	< 475.0 g/l
Solids content	0.0 %

Change in condition

Softening point/range	
Oxidising properties	Not determined.
Evaporation rate	Not determined.

Information with regard to physical hazard classes:

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void

Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

Section 10: Stability and reactivity

10.1. Reactivity
Fast drying, short waiting times between work phases

10.2. Chemical stability

Information on the shelf life:
Resistant to chemical erosion.

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
Keep away from heat and direct sunlight.
Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials
Strong acids, strong bases.
Oxidants.

10.6 Hazardous decomposition products
Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxides.

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification	
111-42-2 diethanolamine	
LD50 oral - rat	1600 mg/kg body weight

8052-42-4 Asphalt	
LD50 oral - rat	> 5000 mg/kg
LD50 dermal - rabbit	> 2000 mg/kg
LD50 inhalation - rat	> 0.094 mg/l
1226892-43-8 Fatty acids, C18 unsaturated, reaction products with diethylenetriamine	
LD50 oral - rat	> 2000 mg/kg body weight
905-588-0 Xylene	
LD50 oral - rat	3.523 mg/kg
LC50 inhalation - rat (vapours)	29 mg/l/4h

Primary irritant effect

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

STOT-single exposure
May cause respiratory irritation.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.

11.2 Information on other hazards
Endocrine disrupting properties
None of the ingredients is listed.

Section 12: Ecological information

12.1. Toxicity

Aquatic toxicity

CAS: 1226892-43-8 Fatty acids, C18 unsaturated, reaction products with diethylenetriamine	
EC50	0.18 mg/l (daphnia)

12.2 Persistence and degradability
Easily biodegradable.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Recommendations

Must not be disposed together with household waste. Do not allow product to reach sewage system.

Waste disposal key:

HP3 - "Flammable":

Flammable liquid waste:

With a flash point below 60°C or waste gas oils, diesel fuels and light heating oils with a flash point > 55°C and ≤ 75°C

Flammable solid or pyrophoric liquid waste:

Even in small quantities, is likely to ignite in less than five minutes when in contact with air.

Flammable solid waste:

Which is readily flammable, or which can cause or aggravate a fire by igniting through friction.

Flammable gaseous waste:

In air at 20°C and a normal pressure of 101.3 kPa;

Water-reactive waste:

In contact with water, releases flammable gases in dangerous quantities;

Other flammable wastes:

Flammable aerosols, flammable self-heating wastes, flammable organic peroxides and flammable self-reactive wastes.

HP4 - "Irritant - skin irritation and eye damage":

Waste that may cause skin irritation or eye damage if applied.

HP5 - "Specific target organ toxicity (STOT)/aspiration toxicity":

Waste liable to cause specific target organ toxicity through single or repeated exposure, or acute toxic effects following aspiration.

HP6 - "Acute toxicity":

Waste which may cause acute toxic effects following oral or dermal administration, or following inhalation exposure.

HP14 - "Ecotoxic":

Waste which presents or may present immediate or delayed risks to one or more components of the environment.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Section 14: Transport information

14.1. UN number or ID number

ADR	UN1263
RID	UN1263
ADN	UN1263
IMDG	UN1263

14.2 UN proper shipping name

ADR	UN 1263, Paint related material, 3, III, (D/E)
RID	UN 1263, Paint related material, 3, III, (D/E)
ADN	UN 1263, Paint related material, 3, III, (D/E)
IMDG	UN 1263, Paint-related materials, 3, III, (D/E)
IATA	UN 1263, Paint-related materials, 3, III, (D/E)

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA



Class 3	3 Flammable liquids.
Label	3

14.4 Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5 Environmental hazards

Marine pollutant	No

14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number	
(Kemler code)	33

14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

Transport/Additional information

ADR

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

RID	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation"	UN 1263 PAINT, 3, III

Section 15: Regulatory information

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

Poisons Act

Regulated explosives precursors

None of the ingredients are listed.

Regulated poisons

None of the ingredients are listed.

Reportable explosives precursors

None of the ingredients are listed.

Reportable poisons

None of the ingredients are listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

National regulations:

Information about limitation of use:

RG 49:

Skin disorders caused by aliphatic, alicyclic amines or ethanolamines.

RG 49 BIS:

Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any SVHC's.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other information

The information given in this Safety Data Sheet is given in good faith and based on our current knowledge. We reserve the right to update and modify this document as necessary. The information in this sheet does not constitute a risk assessment for the workplace. While every effort is made to ensure that the information is accurate and up to date, it is not intended to form part of a contract or to imply any additional liability, which is expressly excluded. This Safety Data Sheet (SDS) is calculated with a Calculation method based on GB CLP Annex I, parts 2 to 5.

Abbreviations:

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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