Safety Data Sheet

According to Regulation (EC) No. 1907/2006

VERNIS SEAL

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

1.1. Product identifier
Product name: VERNIS SEAL

1.2. Relevant identified uses of the substance or mixture and uses advised against
Professional use only
Bonding primer on concrete substrate

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) 1473 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

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 2 (Flam. Liq. 2, H225).
Repeated exposure may cause skin dryness or cracking (EUH066).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:

GHS07

GHS02

Signal Word:
DANGER

Product identifiers:

EC 205-500-4	ETHYL ACETATE

Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements - Prevention:

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a Poison Centre or doctor/physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements - Disposal:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements - Disposal:

P501	Dispose of contents/container to an approved center as a hazardous material

2.3. Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern’ (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with Annex XIII of the REACH regulations EC 1907/2006.

Section 3: Composition/information on ingredients

3.2. Mixtures Composition:

Identification	(EC) 1272/2008	Note	%
CAS: 141-78-6 EC: 205-500-4 REACH: 01-2119475103-46 ETHYL ACETATE	GHS02, GHS07 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH:066	[1]	50 <= x % < 100

(Full text of H-phrases: see section 16).

Information on ingredients:
[1] Substance for which maximum workplace exposure limits are available.

Section 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:
In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.
If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.
If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes:
Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:
Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
DO NOT use solvents or diluents

In the event of swallowing:
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting.
Seek medical attention, showing the label.
If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary.
Show the label.

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

No data available.

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

No data available.

Section 5: Firefighting measures

Flammable.
Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use:
- water with AFFF (Aqueous Film Forming Foam) additive
- foam
- multipurpose ABC powder

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use:
- water jet
- water

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.
In the event of a fire, the following may be formed:
- carbon monoxide (CO)
- carbon dioxide (CO^2)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.
Avoid inhaling the vapors.
Avoid any contact with the skin and eyes.
If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.
Use drums to dispose of collected waste in compliance with current regulations.
If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.
Do not discard rinsing agents down the drain.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

Refer to section 13 for waste disposal rules.

Section 7: Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention:

Handle in well-ventilated areas.
Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.
Prevent the accumulation of electrostatic charges with connections to earth.
The mixture can become electrostatically charged: always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically non-conductive.
Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames.
Do not use tools which may produce sparks. Do not smoke.
Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Avoid inhaling vapours.
Avoid inhaling vapours. Carry out any industrial operation which may give rise to this in a sealed apparatus.
Provide vapour extraction at the emission source and also general ventilation of the premises.
Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions. In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.
Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.
Keep away from all sources of ignition - do not smoke.
Keep well away from all sources of ignition, heat and direct sunlight.
Avoid accumulation of electrostatic charges.
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging:
Vats
Drums

Suitable packaging materials:
Metal

Unsuitable packaging materials:
Plastic

7.3. Specific end use(s)

No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 98/24/CE):

CAS	VME-ppm	VME-mg/m³	VLE-ppm	VLE-mg/m³	Notes
141-78-6	200	734	400	1468	-

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA	STEL	Ceiling	Definition	Criteria
141-78-6	400 ppm	-	-	-	-

Germany - AGW (BAuA - TRGS 900, 29/01/2018):

CAS	VME	VME	Excess	Notes
141-78-6	-	200ppm 730mg/m³	-	2(I)

France (INRS - ED984:2016):

CAS	VME-ppm	VME-mg/m³	VLE-ppm	VLE-mg/m³	Notes	TMP No
141-78-6	400	1400	-	-	-	84

UK / WEL (Workplace exposure limits, EH40/2005, 2011):

CAS	TWA	STEL	Ceiling	Definition	Criteria
141-78-6	200 ppm -mg/m³	400 ppm -mg/m³	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ETHYL ACETATE (CAS: 141-78-6)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL:	63 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL:	1468 mg of substance/m³

Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL:	734 mg of substance/m^3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL:	734 mg of substance/m^3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL:	1468 mg of substance/m^3
Final use:	**Consumers.**
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL:	734 mg of substance/m^3

Predicted no effect concentration (PNEC):

ETHYL ACETATE (CAS: 141-78-6)

Environmental compartment:	Soil.
PNEC:	0.148 mg/kg
Environmental compartment:	Fresh water.
PNEC:	0.26 mg/l
Environmental compartment:	Sea water.
PNEC:	0.026 mg/l
Environmental compartment:	Intermittent waste water.
PNEC:	1.65 mg/l
Environmental compartment:	Fresh water sediment.
PNEC:	1.15 mg/kg
Environmental compartment:	Marine sediment.
PNEC:	0.115 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC:	650 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Eye / face protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes Before handling, wear safety goggles with protective sides accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Hand protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Type of gloves recommended: Butyl Rubber (Isobutylene-isoprene copolymer) Recommended properties: Impervious gloves in accordance with standard EN374
Body protection	Avoid skin contact. Wear suitable protective clothing. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Respiratory protection	Avoid breathing vapours. If the ventilation is insufficient, wear appropriate breathing apparatus. When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device. Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387: A2 (Brown)

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information:

Physical state:	Viscous liquid.

Important health, safety and environmental information

pH:	Not relevant.
Boiling point/boiling range:	> 35°C
Flash Point:	-4.00 °C.
Vapour pressure (50°C):	Below 110 kPa (1.10 bar).
Density:	0,92 g/cm^3 (a 20°C)
Water solubility:	Insoluble.
Viscosity:	10 seconds (Coupe Ford N°4)
Melting point/melting range:	Not specified.
Self-ignition temperature:	Not specified.
Decomposition point/decomposition range:	Not specified.

9.2. Other information

VoC (g/l):	773

Section 10: Stability and reactivity

10.1.	**Reactivity**	No data available.
10.2.	**Chemical stability**	This mixture is stable under the recommended handling and storage conditions in section 7.
10.3.	**Possibility of hazardous reactions**	When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.
10.4.	**Conditions to avoid**	Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.
	Avoid:	Accumulation of electrostatic charges. Heating Flames and hot surfaces
10.5.	**Incompatible materials**	No data available.
10.6.	**Hazardous decomposition products** The thermal decomposition may release/form:	carbon monoxide (Co) carbon dioxide (Co_2)

Section 11: Toxicological information

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.
Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.
Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage.
Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.
Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

11.1.1. Substances

No toxicological data available for the substances.

Acute toxicity:

ETHYL ACETATE (CAS: 141-78-6)

Oral route:	LD50 > 5620 mg/kg
Species:	Rat
Dermal route:	LD50 > 2000 mg/kg
Species:	Rabbit
Inhalation route:	LC50 > 22.5 ppm
Species:	Rat

Respiratory of skin sensitisation:

ETHYL ACETATE (CAS: 141-78-6)

Guinea Pig Maximisation Test (GMPT):	Non-sensitiser.
Species:	Others

OECD Guideline 406 (Skin Sensitisation).

Germ cell mutagencity:
ETHYL ACETATE (CAS: 141-78-6)
Mutagenesis (in vivo): Negative.
Species: Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro): Negative.
OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro): Negative.
With or without metabolic activation.

Specific target organ systemic toxicity - single exposure:
ETHYL ACETATE (CAS: 141-78-6)

Oral route: C = 26400 mg/kg bodyweight
Species: Mouse

Specific target organ systemic toxicity - repeated exposure:
ETHYL ACETATE (CAS: 141-78-6)
Oral route: C = 900 mg/kg bodyweight/day
Duration of exposure: 90 days

Inhalation route: C = 1.28 ppmV/6h/day
Species: Rat
Duration of exposure: 90 days
EPA OTS 298.2450 (90-Day Inhalation

11.1.2. Mixture
No toxicological data available for the mixture.

Monograph(s) from the IARC (International Agency for Research on Cancer):
CAS 80-62-6: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

Section 12: Ecological information

12.1. Toxicity

12.1.1. Substances
ETHYL ACETATE (CAS: 141-78-6)
Fish toxicity: LC50 > 230 mg/l
Species: Pimephales promelas
Duration of exposure: 96 h
NOEC < 9.65 mg/l
Species: Pimephals promelas
Duration of exposure: 96 h

Crustacean toxicity: EC50 > 165 mg/l
Species: Daphnia cucullata
Duration of exposure: 48 h
NOEC < 2.4 mg/l
Species: Daphina magna
Duration of exposure: 21 days

Aquatic plant toxicity: ECr50 > 56000 mg/l
Duration of exposure: 48 h
REACH Method C.3 (Algal Inhibition test)

12.1.2. Mixtures
No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability
No data available.

12.2.1. Substances
ETHYL ACETATE (CAS: 141-78-6)
Biodegradability: Rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances
ETHYL ACETATE (CAS: 141-78-6)
Octanol/water partition coefficient: log Koe = 0.75
Bioaccumulation: BCF = 30
Species: Leuciscus idus (Fish)

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
No data available.

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
Do not pour into drains or waterways.

Waste:
Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.
Do not eliminate with household waste.
Do not discard rinsing agents down the drain.

Soiled packaging:
Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

Local arrangements:

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):
08 01 11 * waste paint and varnish containing organic solvents or other dangerous substances
15 01 10 * packaging containing residues of or contaminated by dangerous substances

Section 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

14.1. UN number

1263

14.2. UN proper shipping name

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

14.3. Transport hazard class(es)

Classification:

3

14.4. Packing group

II

14.5. Environmental hazards

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	II	3	33	5 L	163 367 640D 650	E2	2	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	3	-	II	5 L	F-E,S-E	163 367	E2

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	II	353	5 L	364	60 L	A3 A72 A192	E2
	3	-	II	Y341	1 L	-	-	A3 A72 A192	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Classification and labelling information included in section 2:
The following regulations have been used:
EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13).

15.2. Chemical safety assessment
No data available.

Section 16: Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations:
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
ADR: European agreement concerning the international carriage of dangerous goods by Road.
IMDG: International Maritime Dangerous Goods.
IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation.
ICAO: International Air Transport Association.
RID: Regulations concerning the International carriage of Dangerous goods by rail.
WGK: Wassergefahrdungsklasse (Water Hazard Class).
GHS02: Flame.
GHS07: Exclamation mark.
PBT: Persistent, bioaccumulable and toxic.
vPvB: Very persistent, very bioaccumulable.
SVHC: Substances of very high concern.

The data contained in this Safety Data Sheet (SDS) has been supplied as required by the EC REACH Regulation No. 1907/2006 and the EC Regulation No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company who are capable of acting on the information.