ALLTIMES COATINGS
EXPERIENCE THE DIFFERENCE IN EVERY COAT

Advantage® Sealant

ADVANTAGE Gives you the edge

One part Modified Polymer Sealant which cures on exposure to vapour to form a tough elastic finish Excellent UV, Mechanical and Temperature resistance. Can be applied on a damp substrate.

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

1.1 Product Identifier

Product Name:	Advantage® Sealant
Product Number:	ATAVS

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Users:	Coating for Roof Maintenance & Repair

1.3 Details of the Supplier of the Safety Data Sheet

Supplier:	Alltimes Coatings Limited Unit 17A, Nailsworth Mills Estate, Nailsworth, Gloucestershire, GL6 0BS. UK

1.4 Emergency Contact Numbers

Telephone:	01455 272 278
Mobile:	07773 329 424

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture Classification (EC 1272/2008)

Health Hazards:	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.
Environmental Hazards:	The product is not expected to be hazardous to the environment.

2.2 Label Elements

Pictogram:	
Signal Word:	Warning
Hazard Statements:	-
Precautionary Statements:	May produce an allergic reaction.
Contains:	(2-Aminoethylamino)-Propyltrmethoxysilane, Dioctytinbis (A Cetylacetonate).

2.3 Other Hazards

Other Hazards:	This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/Information on Ingredients

3.1 Mixtures

Trimethoxy Vinylsilane	1 - 5%
CAS Number:	2768-02-7
EC Number:	220-449-8
REACH Registration Number:	-
Classification (EC 1272/2008):	Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 Aquatic Chronic 2 - H411
Classification (67/548/EEC):	Xn;R20. R10 Xi;R36. N;R51/53
Composition Comments:	Silyl-terminated polyether, with fillers, organosilane additives, and auxiliaries.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General:	In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues
Ingestion:	Immediately rinse mouth and drink plenty of water (200 - 300 ml). Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately.
Skin Contact:	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye Contact:	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation:	No specific symptoms noted.
Ingestion:	May cause discomfort if swallowed.
Skin Contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye Contact:	Prolonged contact may cause redness and/or tearing.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes for the Doctor:	See section 4.1

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media:	Water spray. Foam, carbon dioxide or dry powder. Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special Hazards Arising from the Substance or Mixture

Specific Hazards:	In case of fire, toxic gases may be formed.
Hazardous Combustion Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
Unusual Fire & Explosion Hazards:	No unusual fire or explosion hazards noted.

5.3 Advice for Firefighters

Protective Actions During Firefighting:	Not known.
Special Protective Equipment for Firefighters:	Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel:	Wear appropriate protective clothing. Follow precautions for safe handling described in this safety data sheet.

6.2 Environmental Precautions

Environmental Precautions:	Do not discharge into drains, water courses or onto the ground.

6.3 Methods & Material for Containment and Cleaning

Methods for Cleaning Up:	Transfer to a container for disposal. Wash thoroughly after dealing with a spillage.

6.4 Reference to Other Sections

Reference to Other Sections:	For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Usage Precautions:	Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Precautions:	Store in tightly closed original container in a dry, cool and well-ventilated place.
Storage Class:	Unspecified storage.

7.3 Specific End Use(s)

Specific End Use(s):	The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters Occupational Exposure Limits

Ingredient Comments:	DNEL and PNEC values given for Trimethoxyvinyl silane				
DNEL:	Industry	Dermal	Long Term	Systemic Effects	0.69 mg/kg/day
	Industry	Inhalation	Long Term	Systemic Effects	4.9 mg/m^3
	Industry	Dermal	Short Term	Systemic Effects	26.9 mg/kg/day
	Industry	Inhalation	Short Term	Systemic Effects	93.4 mg/m^3
	Industry	Dermal	Long Term	Systemic Effects	0.3 mg/kg/day
	Industry	Inhalation	Long Term	Systemic Effects	1.04 mg/m^3
	Industry	Oral	Long Term	Systemic Effects	0.3

Ingredient Comments:	DNEL and PNEC values given for Trimethoxyvinyl silane	
PNEC:	Fresh water	0.34 mg/l
	Marine water	0.034 mg/l
	Intermittent Release	3.4 mg/l
	STP	110 mg/l
	Sediment (Fresh water)	1.24 mg/kg
	Sediment (Marine water)	0.12 mg/kg
	Soil	0.052 mg/kg

8.2 Exposure Controls

Eye/Face Protection:	Wear approved safety goggles.
Hand Protection:	Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Hygiene Measures:	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory Protection:	Not normally required. Provide adequate ventilation

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance:	Thixotropic paste
Colour:	Various colours - black, grey, white
Odour:	Mild/faint
Solubility:	Insoluble in water
Initial Boiling Point and Range:	Not applicable
Melting Point:	Not applicable
Relative Density:	1.43 - 1.53 @ 20°C
Vapour Pressure:	Not applicable
Vapour Density:	Not applicable
Evaporation Factor:	Not applicable
pH-Value, Concentrated Solution:	Not applicable
pH-Value, Diluted Solution:	Not applicable
Viscosity:	Not applicable
Solubility Value (G/100G H_2O @ 20°C)	6, 000 - 10, 000 Ps @ 20°C
Decomposition Temperature (°C):	Not applicable
Upper Odour Threshold:	Not applicable
Lower Odour Threshold:	Not applicable
Flash Point:	Not determined
Auto-ignition Temperature:	~ 400°C
Flammability (Solid, Gas):	No specific test data are available
Lower Flammability or Explosive Limits:	Not applicable
Upper Flammability or Explosive Limits:	Not applicable
Explosive Properties:	Not applicable

9.2 Other Information

Volatile Organic Compound:	No information required.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Reactivity:	No test data specifically related to reactivity available for this product or its ingredients.

10.2 Chemical Stability

Stability:	Stable at normal ambient temperatures and when used as recommended.

10.3 Possibility of Hazardous Reactions

Possibility of Hazardous Reactions:	Under normal conditions of storage and use, no hazardous reactions will occur.

10.4 Conditions to Avoid

Conditions to Avoid:	Avoid excessive heat for prolonged periods of time. Moisture

10.5 Incompatible Materials

Materials to Avoid:	No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6 Hazardous Decomposition Products

Hazardous Decomposition Products:	In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects Acute Toxicity

Toxic Dose 1:	LD50
Trimethoxyvinylsilane:	7.34 - 7.46 mg/kg (Oral Rat)
Toxic Dose 2:	LD50
Bis-(2, 2, 6, 6-Tetramethyl-4-piperidinyl) Sebacate:	3700 mg/kg (Oral Rat)
Toxic Conc.:	LC50
Trimethoxyvinylsilane:	16.79 mg/l/4h (Inhalation Rat)
Toxicological Information:	The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.
Acute Toxicity:	Based on available data the classification criteria are not met.
Skin Corrosion/Irritation:	Based on available data the classification criteria are not met.
Respiratory and Skin Sensitisation:	The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.
Germ Cell Mutagenicity:	Does not contain any substances known to be mutagenic.
Carcinogenicity:	Does not contain any substances known to be carcinogenic.
Reproductive Toxicity:	Does not contain any substances known to be toxic to reproduction.
Inhalation:	No specific health warnings noted.
Ingestion:	No harmful effects expected in amounts likely to be ingested by accident.
Skin Contact:	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.
Eye Contact:	May cause temporary eye irritation.
Ecotoxicity:	The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/ EC and classified for ecotoxicological hazards accordingly. In cross-linked state not soluble in water. Easily separable from water by filtration.

SECTION 12: Ecological Information

12.1 Toxicity

Toxicity:	There is no data for the product.
Acute Toxicity - Fish:	LC50 96 hours Trimethoxyvinylsilane 191 mg/l Onchorhynchus mykiss (Rainbow Trout), LC50 96 hours Bis-(2, 2, 6, 6-Tetramethyl-4-piperidinyl) Sebacate 13 mg/l Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates:	EC50 48 hours Trimethoxyvinylsilane >100 mg/l Daphnia Magna, EC50 48 hours Bis-(2, 2, 6, 6-Tetramethyl-4-piperidinyl) Sebacate 17 mg/l Daphnia Magna
Acute Toxicity - Aquatic Plants:	EC50 72 hours Trimethoxyvinylsilane >100 mg/l Freshwater Algae, EC50 72 hours Bis-(2, 2, 6, 6-Tetramethyl-4-piperidinyl) Sebacate 1.9 mg/l Scenedesmus Subspicatus
Acute Toxicity - Microorganisms:	EC50 3 hours Bis-(2, 2, 6, 6-Tetramethyl-4-piperidinyl) Sebacate >100 mg/l Activated Sludge

12.2 Ecological Information

Persistence and Degradability:	The product is not expected to be biodegradable.

12.3 Bioaccumulative Potential

Bioaccumulative Potential:	Bioaccumulation in aquatic organisms is not expected.

12.4 Mobility in Soil

Mobility:	Not relevant, due to the form of the product.

12.5 Results of PBT and vPvB Assessment

Results of PBT and vPvB Assessment:	This product does not contain any substances classified as PBT or vPvB.

12.6 Other Adverse Effects

Other Adverse Effects:	None known.
General	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Disposal Methods:	Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements.
Waste Class:	Recommended EWC Code 08 04 10.
General:	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

SECTION 14: Transport Information

14.1 UN Number

UN Number:	No information required.

14.2 UN Proper Shipping Name

UN Shipping Name:	No information required.

14.3 Transport Hazard Class(es)

Transport Hazard Class(es):	No information required.

14.4 Packaging Group

Packaging Group:	No information required.

14.5 Environmental Hazards

Environmental Hazards:	Environmentally hazardous substance/marine pollutant? - No.

14.6 Special Precautions for User

Special Precautions for User:	No information required.

14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**:**	Not applicable.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

National Legislation:	Chemicals (Hazard Information & Packaging) Regulations. Guidance Notes Workplace Exposure Limits EH40.
EU Legislation:	Dangerous Preparations Directive 1999/45/EC. Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.

15.2 Chemical Safety Assessment

General:	No chemical safety assessment has been carried out.
Revision Date:	15/06/12
Revision:	1
Revision Comments:	New format as required by REACH Annex II.
Supersedes Date:	25/08/05
SDS Number:	10203

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