

# SAFETY DATA SHEET: AD80 STICKY MAT ADHESIVE

Revision Date: 13.1.2017 Page 1/

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

### 1.1. Product identifier

#### 1.2.

**Product name: AD80 STICKY MAT ADHESIVE**

### REACH Registration Number

This product is a mixture and therefore not directly subject of the registration requirements under REACH.

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

#### Identified uses

Modelling adhesive

### 1.3. Details of the supplier of the safety data sheet

Deluxe Materials Ltd  
Unit 13, Cufau Business Park  
Cufau Lane  
Bramley  
Hampshire  
RG26 5DL

United Kingdom

Tel: +44 (0)1256 883 944

Fax: +44 (0)1256 883 966

### SDS Contact (email of responsible person)

[info@deluxematerials.com](mailto:info@deluxematerials.com)

### 1.4. Emergency telephone number

+44 (0)1256 883 944 (Office hours only)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)



Hazard pictograms :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/eye protection/ face protection.

### 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.

P337 + P313 If eye irritation persists: Get medical advice/attention.

## AD80 Sticky Mat adhesive SDS

**Additional Labelling:**

EUH208 Contains: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1), 1,2-Benzisothiazol-3(2H)-one. , 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.

**2.3 Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Chemical nature : Polymer aqueous dispersion.

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Nonylphenol, branched, ethoxylated (12 E0)	68412-54-4	Eye Dam. 1; H318 Aquatic Chronic 3; H412	< 1
ammonia, anhydrous	7664-41-7 231-635-3 01- 2119488876- 14-XXXX	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Acute 1; H400 M-Factor 1	< 0.25
Formaldehyde	50-00-0	200-001-8 01- 2119488953- 20-XXXX Carc. 1B; H350 Muta. 2; H341 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Skin Sens. 1; H317	< 0.005

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice : Get medical attention if symptoms occur.

Show this safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.

## AD80 Sticky Mat adhesive SDS

In case of skin contact : Wash off immediately with soap and plenty of water. Remove contaminated clothing. If irritation develops, get medical attention. Wash contaminated clothing before reuse.

In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

If swallowed : If accidentally swallowed obtain immediate medical attention. Do NOT induce vomiting.

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

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Repeated or prolonged exposure may cause irritation of eyes and skin.

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

No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No information available.

### 5.2 Special hazards arising from the substance or mixture

The pressure in sealed containers can increase under the influence of heat.

### 5.3 Advice for firefighters

Use personal protective equipment. The product itself does not burn. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

### 6.3 Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Large spills should be collected mechanically (remove by pumping) for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations. Dispose of in accordance with local regulations.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment. For personal protection see section 8. Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. Smoking, eating and drinking should be prohibited in the application area.

## AD80 Sticky Mat adhesive SDS

**7.2 Conditions for safe storage, including any incompatibilities**

Store in original container. Keep in properly labelled containers. Store between 5 and 35 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Do not freeze.

**7.3 Specific end uses**

Consult the technical guidelines for the use of this substance/mixture.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
ammonia, anhydrous	7664-41-7	TWA	25 ppm 18 mg/m <sup>3</sup>	2007	EH40 (UK)
		STEL	35 ppm 25 mg/m <sup>3</sup>	2007	EH40 (UK)
Formaldehyde	50-00-0	TWA	2 ppm 2.5 mg/m <sup>3</sup>	2005	EH40 (UK)
		STEL	2.5 mg/m <sup>3</sup>	2005	EH40 (UK)

**DNEL****ammonia, anhydrous :**

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Short term, Systemic toxicity  
68 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short term, Systemic toxicity  
Value: 47.6 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short term, Local effects  
Value: 36 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long term, Systemic toxicity  
68 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long term, Systemic toxicity  
Value: 47.6 mg/m<sup>3</sup>

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long term, Local effects  
Value: 14 mg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Short term, Systemic toxicity  
68 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Short term, Systemic toxicity

## AD80 Sticky Mat adhesive SDS

Value: 23.8 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Short term, Systemic toxicity  
 6.8 mg/kg  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Short term, Local effects  
 Value: 7.2 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Long term, Systemic toxicity  
 68 mg/kg  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long term, Systemic toxicity  
 Value: 23.8 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Long term, Systemic toxicity  
 6.8 mg/kg  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long term, Local effects  
 Value: 2.8 mg/m<sup>3</sup>

**Formaldehyde :**

End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Short term, Local effects  
 Value: 1 mg/m<sup>3</sup>  
 End Use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Long term, Systemic toxicity  
 240 mg/kg  
 End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long term, Systemic toxicity  
 Value: 9 mg/m<sup>3</sup>  
 End Use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Long term, Local effects  
 Value: 0.037 mg/cm<sup>2</sup>  
 End Use: Workers  
 SDS: AD25 SCATTERGRIP Page 6  
 Exposure routes: Inhalation  
 Potential health effects: Long term, Local effects  
 Value: 0.5 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Long term, Systemic toxicity  
 102 mg/kg  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long term, Systemic toxicity  
 Value: 3.2 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Long term, Systemic toxicity  
 4.1 mg/kg  
 End Use: Consumers  
 Exposure routes: Skin contact

## AD80 Sticky Mat adhesive SDS

Potential health effects: Long term, Local effects

Value: 0.012 mg/cm<sup>2</sup>

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long term, Local effects

Value: 0.1 mg/m<sup>3</sup>

### PNEC

#### ammonia, anhydrous :

Fresh water

Value: 0.0011 mg/l

Marine water

Value: 0.0011 mg/l

Intermittent use/release

Value: 0.0068 mg/l

#### Formaldehyde:

Fresh water

Value: 0.47 mg/l

Marine water

Value: 0.47 mg/l

Intermittent use/release

Value: 4.7 mg/l

Impact on Sewage Treatment

Value: 0.19 mg/l

Fresh water sediment

Value: 2.44 mg/kg

Marine sediment

Value: 2.44 mg/kg

Soil

Value: 0.21 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

Respiratory protection : not required under normal use

Hand protection : Protective gloves complying with EN 374.: Nitrile rubber

Break through time: 480 min

Glove thickness: 0.1 - 0.4 mm: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Safety glasses with side-shields conforming to EN166

Skin and body protection : not required under normal use. Skin should be washed after contact. Remove and wash contaminated clothing before re-use.

Hygiene measures : Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

#### Environmental exposure controls

General advice: :The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: Physical and chemical properties

## AD80 Sticky Mat adhesive SDS

**9.1 Information on basic physical and chemical properties**

Appearance : liquid, aqueous dispersion  
 Colour : white  
 Odour : ester-like  
 Odour Threshold : not determined  
 Melting point/freezing point : not determined  
 Boiling point : not determined  
 Flash point : not applicable  
 Evaporation rate : not determined  
 Flammability (solid, gas) : The product is not flammable.  
 Lower explosion limit : not applicable  
 Upper explosion limit : not applicable  
 Vapour pressure : ca. 23 hPa, at 20 °C  
 Relative vapour density : not determined  
 Relative density : 0.9 - 1.1  
 Water solubility : insoluble, completely miscible, in all proportions  
 Partition coefficient: octanol/  
 water  
 : not determined  
 Ignition temperature : not applicable  
 Explosive properties : not applicable  
 Oxidizing properties : not applicable

**9.2 Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

None known.

SDS: AD25 SCATTERGRIP Page 8

**10.4 Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

No data is available on the product itself. Information given is based on data on the components and the toxicology of similar products.

**Components:****Nonylphenol, branched, ethoxylated (12 E0):**

Acute oral toxicity : LD50 Oral: > 2,000 mg/kg, rat

Serious eye damage/eye  
irritation

: Severe eye irritation

**ammonia, anhydrous:**

Acute oral toxicity : LD50 Oral: 350 mg/kg, rat, OECD Test Guideline 401

Skin corrosion/irritation : Rabbit, OECD Test Guideline 404, Causes severe skin burns.

Serious eye damage/eye  
irritation

## AD80 Sticky Mat adhesive SDS

: Severe eye irritation

Respiratory or skin  
sensitization

: Does not cause skin sensitization.

Genotoxicity in vitro : OECD Test Guideline 471, In vitro tests did not show mutagenic effects

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

Reproductive toxicity : Fertility and developmental toxicity tests did not reveal any effect on reproduction.

STOT - single exposure : Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

STOT - repeated exposure : No data available

**Formaldehyde:**

Acute oral toxicity : LD50 Oral: 600 - 800 mg/kg, rat

Acute inhalation toxicity : LC50: 0.578 mg/l, rat

Acute dermal toxicity : LD50 Dermal: 270 mg/kg, Rabbit

Skin corrosion/irritation : Corrosive to skin

Serious eye damage/eye  
irritation

: May cause irreversible eye damage.

Respiratory or skin  
sensitization

: May cause sensitization by skin contact.

Carcinogenicity : Suspected of causing cancer.

**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : No data is available on the product itself.

SDS: AD25 SCATTERGRIP Page 9

Chronic aquatic toxicity : No data is available on the product itself.

**Components:****Nonylphenol, branched, ethoxylated (12 E0):**

Toxicity to fish : LC50: 10 - 20 mg/l, 96 h, Fish

Toxicity to daphnia and other  
aquatic invertebrates.

: 44 mg/l, 48 h, Daphnia magna (Water flea)

**ammonia, anhydrous:**

Toxicity to fish : LC50: 0.8 mg/l, 96 h, Fish, Very toxic to aquatic organisms.

Toxicity to daphnia and other  
aquatic invertebrates.

: EC50: 24.4 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : No data available

Toxicity to fish (Chronic  
toxicity)

: No data available

Toxicity to daphnia and other  
aquatic invertebrates.

(Chronic toxicity)

: No data available

**Formaldehyde:**

Toxicity to fish : LC50: 41 mg/l, 96 h, Danio rerio (zebra fish)

Toxicity to daphnia and other  
aquatic invertebrates.

: EC50: 42 mg/l, 24 h, Daphnia magna (Water flea)



**Product:**

Biodegradability : Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

**Components:****Nonylphenol, branched, ethoxylated (12 E0):**

Biodegradability : OECD Test Guideline 301, Not readily biodegradable.

**ammonia, anhydrous:**

Biodegradability : No data available

**Formaldehyde:**

Biodegradability : Readily biodegradable, according to appropriate OECD test.

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Bioaccumulation is unlikely.

**Components:****ammonia, anhydrous:**

Bioaccumulation : No data available

**Formaldehyde:**

Bioaccumulation : Bioaccumulation is unlikely.

**12.4 Mobility in soil****Product:**

Distribution among environmental compartments : No data available

Physico-chemical

Removability

: 98 %, OECD Test Guideline 302, The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

**Components:****Formaldehyde:**

Distribution among environmental compartments

: Medium: Soil, Highly mobile in soils

**12.5 Results of PBT and vPvB assessment****Product:**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**12.6 Other adverse effects****Product:**

This product has no known eco-toxicological effects.

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## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

In accordance with local and national regulations.

The product should not be allowed to enter drains, water courses or the soil.

Waste water from subsequent processing should be given appropriate treatment in line with local regulations.

Contaminated packaging : In accordance with local and national regulations

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## SECTION 14: Transport information

### 14.1 UN number

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**IMDG** Not dangerous goods  
**IATA** Not dangerous goods

### 14.2 Proper shipping name

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**IMDG** Not dangerous goods  
**IATA** Not dangerous goods

### 14.3 Transport hazard class

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**IMDG** Not dangerous goods  
**IATA** Not dangerous goods

### 14.4 Packing group

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**IMDG** Not dangerous goods  
**IATA** Not dangerous goods

### 14.5 Environmental hazards

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**IMDG** Not dangerous goods  
**IATA** Not dangerous goods

### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

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## SECTION 15: Regulatory information

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

Water contaminating class  
(Germany)

: WGK 1 slightly water endangering

Classification according VwVwS, Annex 4.

### 15.2 Chemical Safety Assessment

not applicable

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## SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H221 Flammable gas.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

## AD80 Sticky Mat adhesive SDS

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Information taken from reference works and the literature.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Annex: Exposure Scenario(s)**

Development of Exposure Scenario is not required.

EXD 202