

# SAFETY DATA SHEET

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## SUBSTRATE

**A1-8026**

VERSION 2.1  
REVISION DATE: 16 Oct. 2025  
SUPERSEDES DATE: 29 Aug. 2025

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

### 1.1 PRODUCT IDENTIFIER

Product Name	Substrate
Product Code	A1-8026
CAS Number	Not Available
EC Number	Not Available

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

For research use only.

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company Name	HexagonFab Ltd. (trading as Abselion™)
Address	Unit 1, Cambridge House, Oakington Road, Cambridge, UK, CB3 0QH
Telephone	+44 1223 981475 (office hours 9:00 to 17:00 Mon-Fri)
Email	support@abselion.com

### 1.4 EMERGENCY TELEPHONE NUMBER

During normal office hours: +44 1223 981475 (9:00-17:00 Mon-Fri)

In the event of medical emergency, call for an ambulance or emergency medical assistance immediately.

## SECTION 2: Hazards identification

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

Not a hazardous substance or mixture according to EC Directive 67/548/EEC or 1999/45/EC.

### 2.2 LABEL ELEMENTS

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

This substance or mixture does not need to be labelled in accordance with EC directives or respective national laws.

**Pictogram:**

None

**Signal Word:**

None

**Hazard Statements:**

The substance or mixture does not meet the criteria for classification.

**Precautionary Statements:**

None

## 2.3 OTHER HAZARDS

None known

## SECTION 3: Composition/information on ingredients

### 3.2 MIXTURES

**Hazardous components:** None present at concentrations requiring classification under Regulation (EC) No 1272/2008 (CLP).

**Additional information:** Contains <0.1% **3,3',5,5'-Tetramethylbenzidine** (CAS No. 54827-17-7). 3,3',5,5'-Tetramethylbenzidine is present below classification thresholds and is not expected to pose a hazard under normal conditions of use.

## SECTION 4: First aid measures

### 4.1 DESCRIPTION OF FIRST AID MEASURES

**General Information**

Move out of exposure area. Consult doctor if discomfort occurs. Show MSDS to responders.

**Following skin contact**

Remove contaminated clothing and shoes. Wash with soap and plenty of water. Seek medical attention if irritation develops.

**Following eye contact**

Rinse eyes thoroughly with water for at least 15 minutes. Consult a doctor. Seek medical attention if irritation persists.

**Following ingestion**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water if conscious. Consult poison centre or medical personnel for actions to take.

### **Following inhalation**

Move into fresh air. Seek medical attention for any breathing difficulty.

### **4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

### **4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No special treatment indicated. Provide treatment in accordance with exhibited symptoms.

## **SECTION 5: Firefighting measures.**

### **5.1 EXTINGUISHING MEDIA**

#### **Suitable extinguishing media**

Water Spray, dry chemical, foam, carbon dioxide.

### **5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

No special hazards are known to exist regarding combustion of this product.

### **5.3 ADVICE FOR FIRE FIGHTERS**

No specific firefighting precautions known.

## **SECTION 6: Accidental release measures**

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE.**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3 METHODS AND MATERIALS FOR CLEANING UP**

Collect liquid as chemical waste or absorb using an inert absorbent material such as towels, vermiculite, dry earth, sand or other suitable material, and dispose of as chemical waste.

### **6.4 REFERENCE TO OTHER SECTIONS**

See Section 7 for safe handling.

See Section 8 for information on exposure controls/personal protection.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### **Storage conditions:**

Store in an upright, closed container in an arid, ventilated environment in the dark at 2-8 ° C.

### 7.3 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

No data available.

### 8.2 EXPOSURE CONTROLS

#### **ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas. Use in areas near a properly functional safety shower and eyewash station.

#### **PERSONAL PROTECTIVE EQUIPMENT**

##### **Respiratory protection:**

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

##### **Protection of hands:**

No special protection required under normal use conditions. Wear gloves if prolonged or repeated contact is expected, or if required by good laboratory or workplace hygiene practices.

**Eye protection:**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

**Skin and Body protection:**

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work. Do not eat or drink whilst working.

## SECTION 9: Physical and chemical properties

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colourless to trace blue
<b>Physical States</b>	Liquid
<b>Odour</b>	Minimal odour characteristics
<b>Odour Threshold</b>	No data available
<b>pH</b>	pH 3.1 ± 0.5
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point /boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosion limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility(ies)</b>	Soluble in water
<b>Partition coefficient</b>	No data available
<b>Auto ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	TMB is readily oxidized by oxidizing agents such as common metal cations and trace metals, forming blue or yellow coloured products.

## 9.2 OTHER INFORMATION

No further relevant information available.

# SECTION 10: Stability and reactivity

## 10.1 REACTIVITY

No data available.

## 10.2 CHEMICAL STABILITY

Stable under recommended use and storage conditions.

## 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No known hazardous reactions. Will not polymerise.

## 10.4 CONDITIONS TO AVOID

May cause sensitisation by skin contact.

## 10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents, strong acids.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Does not decompose when used and stored as recommended.

# SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

### **Acute Toxicity**

Not classified as acutely toxic by oral, dermal, or inhalation routes.

### **Skin corrosion/irritation**

No data available.

### **Serious eye damage/irritation**

No data available

### **Respiratory or skin sensitisation**

May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available

## SECTION 12: Ecological information

**12.1 TOXICITY:**

No data available.

**12.2 PERSISTENCE AND DEGRADABILITY:**

No data available.

**12.3 BIO-ACCUMULATIVE POTENTIAL:**

No data available.

**12.4 MOBILITY IN SOIL:**

The product is soluble in water.

**12.5 RESULTS OF PBT AND VPVB ASSESSMENT:**

No data available.

**12.6 OTHER ADVERSE EFFECTS:**

No data available.

## SECTION 13: Disposal considerations

**13.1 WASTE TREATMENT METHODS**

**General information**

When handling waste, the safety precautions applying to handling of the product should be considered.

### **Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## **SECTION 14: Transport information**

### **General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **Road transport notes**

Not classified.

### **Rail transport notes**

Not classified.

### **Sea transport notes**

Not classified.

### **Air transport notes**

Not classified.

### **14.1 UN NUMBER**

Not applicable.

### **14.2 UN PROPER SHIPPING NAME**

Not applicable.

### **14.3 TRANSPORT HAZARD CLASS(ES)**

Not applicable.

### **14.4 PACKING GROUP**

Not applicable.

### **14.5 ENVIRONMENTAL HAZARDS**

#### **Environmentally hazardous substance/marine pollutant**

No.

### **14.6 SPECIAL PRECAUTIONS FOR USER**

Not known.

## 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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2 CHEMICAL SAFETY ASSESSMENT:

No chemical safety assessment has been carried out.

## SECTION 16: Other information

### General information

Only trained personnel should use this material.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

### Abbreviations and acronyms

- RID:** Règlement international concernant le transport des marchandises par chemin de fer (Regulations Concerning the International transport of Dangerous Goods by Rail)
- ICAO:** International Civil Aviation Organisation
- 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 Harmonised System of Classification and Labelling of Chemicals
- CAS:** Chemical Abstracts Service (division of the American Chemical Society)
- VbF:** Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
- PBT:** Persistent, Bioaccumulative and Toxic
- vPvB:** very Persistent and very Bioaccumulative