

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

#### **1.1 Product identifier**

**Tecbond 1X**

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

Use of the Substance/Mixture:

Hot Melt Adhesive

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

Power Adhesives Limited  
1 Lords Way  
BASILDON  
Essex  
SS13 1TN  
United Kingdom

Telephone: +44 (0)1268 885800

E-mail address of person responsible for the SDS:

[sds@poweradhesives.com](mailto:sds@poweradhesives.com)

#### **1.4 Emergency telephone number**

Power Adhesives Tel: +44 (0)1268 885800  
(U.K. Monday-Friday 08:00-17:00)

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

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

Not a hazardous substance or mixture.

#### **2.2 Label elements**

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

Not a hazardous substance or mixture.

#### **2.3 Other hazards**

During use, the product is applied at elevated temperatures, exposing the user to the possibility of severe burns unless suitable precautions are taken. Exposure to high levels of fumes at application temperature may cause irritation of the eyes and respiratory tract. Product may accumulate static charges. If adhesive is overheated, especially using a naked flame it will burn. Excessive fume indicates overheating.

### **SECTION 3: Composition/information on ingredients**

#### **3.2 Mixtures**

Hot melt adhesive containing thermoplastic polymers, tackifying resins, and antioxidant. Contains no hazardous ingredients or impurities

### **SECTION 4: First aid measures**

#### **4.1 Description of first aid measures**

**Skin Contact** First aid not normally required for contact with product at ambient temperature. For contact with hot product, plunge affected part into cold water until adhesive thoroughly solid and pain eases. Do not attempt to remove adhesive. Seek medical attention. Adhesive may be softened with olive oil or liquid paraffin. When hot melt removed treat as normal burn.

**Eye contact** Cold pellets may cause abrasions. If hot product enters eye flush area with large quantity of clean cold water. Urgently seek medical assistance.

**Inhalation** No inhalation hazard from cold product. Remove to fresh air if excess fume from hot product inhaled. Treat any irritation symptomatically. If necessary seek medical attention.

**Ingestion** If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting. Give large quantities of water but never give anything by mouth to an unconscious person.

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

Direct contact with molten adhesive will lead to severe thermal burns. Adhesive should be cooled under cold running water. Do not attempt to remove the adhesive.

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

Treat as thermal burns

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

#### **5.1 Extinguishing media**

Suitable extinguishing media: Dry chemical powder  
Carbon dioxide  
Earth  
Sand  
Foam

Unsuitable extinguishing media: Water

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

**Combustion Products:** Carbon dioxide, Carbon monoxide, Acetic acid, Smoke, Low molecular weight hydrocarbons

#### **5.3 Advice for firefighters**

Water should not be used as burning product may float on water.

Self-contained breathing apparatus with a gastight suit should be used when close proximity to the substance or its vapours is likely.

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

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

##### 6.1.1 For non-emergency personnel:

Protective equipment:

Wear gloves and eye protection when handling molten or hot products.

Emergency procedures:

Spilled material will present a slippage hazard on hard surfaces.

If hot product is spilt, allow to cool and take up mechanically.

Sweep up spilled material placing in suitable containers for reuse or disposal.

##### 6.1.2 For emergency responders:

As above

#### **6.2 Environmental precautions**

Prevent material from entering watercourses or sewers. Advise authorities if material enters watercourses or sewers.

#### **6.3 Methods and material for containment and cleaning up**

##### 6.3.1 For containment:

If molten, allow to solidify

##### 6.3.2 For cleaning up:

Sweep up or vacuum up spillage and collect in suitable containers for disposal.

##### 6.3.3 Other information:

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean up of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### **6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

No special requirements. When emptying bulk bags product may accumulate static charge.

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

Store in a clean dry place at temperatures between 5°C/40°F and 30°C/85°F with containers kept closed. Use oldest stock first.

#### **7.3 Specific end use(s)**

Intended for use only as industrial adhesive.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

Nominal industrial hygiene measures should be sufficient. Where contact may occur with hot materials, wear thermal resistant gloves, arm protection and a face shield. During processing adequate ventilation is required. The use of local exhaust ventilation is recommended to control fumes.

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

#### Personal protective equipment

Wear the following personal protective equipment:

Eye protection: Safety glasses

Hand protection: Heat resistant gloves

Remarks: Wash hands before breaks and at the end of workday.

Skin and body protection: Skin should be washed after contact.

Respiratory protection: No personal respiratory protective equipment normally required.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance:	Solid
Colour:	Pale amber
Odour:	No significant odour at ambient temperature
Odour Threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	>75°C/165°F
Initial boiling point and boiling range:	Not applicable
Flash point:	> 200 °C/390 °F
	Method: closed cup
Evaporation rate:	Not applicable
Flammability (solid, gas):	Combustible, but not flammable
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	Not applicable
Relative vapour density:	No data available
Relative density:	Not determined
Solubility(ies)	
Water solubility:	Insoluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	>200°C/390°F
Decomposition temperature:	No data available
Viscosity:	Solid at ambient temperatures
Explosive properties:	None
Oxidizing properties:	None

### 9.2 Other information

Molecular weight: No data available

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Limited chemical reactivity. No hazardous chemicals are known to be formed during the use of this product.  
Adding water to molten product will cause foaming and spitting.

#### **10.2 Chemical stability**

Under storage at normal ambient temperatures (-40°C/-40°F to + 40°C/105°F), the product is stable

#### **10.3 Possibility of hazardous reactions**

None known

#### **10.4 Conditions to avoid**

Storage below 5°C/40°F and above 30°C/85°F

#### **10.5 Incompatible materials**

None known

#### **10.6 Hazardous decomposition products**

Does not decompose when used for intended uses

### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

<b>Acute toxicity:</b>	Not determined
<b>Irritation:</b>	Not determined
<b>Corrosivity:</b>	Not determined
<b>Sensitisation:</b>	Not determined
<b>Repeated dose toxicity:</b>	Not determined
<b>Carcinogenicity:</b>	Not determined
<b>Mutagenicity:</b>	Not determined
<b>Toxicity for reproduction:</b>	Not determined

#### **Other information**

**Inhalation** Negligible hazard at ambient temperature. Vapour at elevated temperature may be irritating to the eyes and respiratory tract.

**Skin contact** Negligible hazard at ambient temperature. Contact with hot material will cause thermal burns which may be severe depending upon amount.

**Eye contact** Exposure to hot material will cause thermal burns which may be severe. Pellets may scratch eye surface or cause mechanical irritation.

**Ingestion** Not determined but believed to have a low order of toxicity.

### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Not known to have any adverse effects

#### **12.2 Persistence and degradability**

Not known to have any adverse effects

#### **12.3 Bioaccumulative potential**

Not determined

#### **12.4 Mobility in soil**

Not determined

#### **12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

#### **12.6 Other adverse effects**

Not determined

### **SECTION 13: Disposal considerations**

Suitable methods of disposal are incinerators with energy recovery or in approved landfill sites in accordance with EC, national and local regulations. Care should be taken to ensure compliance with EC, national and local regulations

### **SECTION 14: Transport information**

Not regulated for land, sea, inland waterways or air.

### **SECTION 15: Regulatory information**

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

#### **The components of this product are reported in the following inventories:**

REACH: All ingredients (pre-)registered or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

Incorrect application can cause degradation of the product. Observe the maximum recommended processing temperature for this product found on the appropriate technical data sheet. If necessary contact the technical service department for advice.

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. Whilst the information contained on this data sheet is the result of careful laboratory evaluations by trained and qualified staff using British Standard or similar test methods, it is designed to give guidance only on the safe handling, use, processing, storage, transportation, disposal and accidental release measures relating only to the specific material identified at the top of this SDS, and may not be valid when the SDS material is used in combination with any other materials or in any processes. No warranty is expressed or implied regarding the accuracy of the data contained within this SDS, or the suitability of the adhesive for any specific purpose. In every case, we strongly recommend that the user shall make their own test to determine, to their own satisfaction, the suitability of the adhesive for their particular purpose.