



# Safety Data Sheet

## BORDEN K10

Current Revision: 02.11.2005

### 1. Identification of the substance/preparation and company.

Product Name: BORDEN K10  
 Product Type: Acid Solution  
 Application: Separate Application Hardener for UF Resin

**Supplier:**  
 HEXION SPECIALTY CHEMICALS UK LTD.  
 SULLY MOORS ROAD  
 SULLY  
 South Glamorgan  
 Wales  
 CF64 5YU

**Emergency Phone Numbers:**  
 CARECHEM24  
 +44(0)208 762 8322

**General Information:**  
 +44(0)845 310 9200

### 2. Composition/Information on Ingredients

#### 2.1. Composition

Phosphoric acid solution

#### 2.2. Information on Ingredients

The ingredients listed below have been associated with one or more of the listed immediate and/or delayed(\*) health hazards. Risk of damage and effects depends upon duration and level of exposure. Before Using Or Handling, Read And Understand The Material Safety Data Sheet. The component concentration in the "% Content" column should be read as equal to or above the lower limit value and below the upper limit value.

CAS/Registry No.	Material Description	% Content
7664-38-2	Phosphoric Acid Health Hazard: Corrosive (C) R34 - Causes burns.	12.5 - 15.0

### 3. Hazards Identification

Health Hazard: Irritant (Xi)  
 R36/38 - Irritating to eyes and skin.

## **4. First-aid Measures**

<b>INGESTION:</b>	If accidentally swallowed, give large quantities of water or milk to dilute the effects on the stomach. Do not induce vomiting. Seek medical advice.
<b>INHALATION:</b>	If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advice.
<b>SKIN CONTACT:</b>	In case of contact, immediately flush with plenty of water. Remove contaminated clothing. In case of prolonged irritation, seek medical advice.
<b>EYE CONTACT:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contact with entire surface of eyes and lids. Seek immediate medical attention.

## **5. Fire-fighting Measures**

Will not burn.  
In case of fire, water should be used to keep fire-exposed containers cool.

## **6. Accidental Release Measures**

Always wear appropriate protective clothing (refer to "Section 8.2"). Large Quantities: Contain and absorb with sand or sawdust and prevent from entering drains or watercourses; should this occur, the relevant Local Authority must be notified. Small Quantities: Soak up with absorbent material and remove to a chemical disposal area.

## **7. Handling and Storage**

### **7.1. Handling**

Handle in accordance with good industrial hygiene and safety practices. Refer to Section 8 for appropriate personal protection equipment. Wash thoroughly after handling.

<b>INHALATION:</b>	Avoid prolonged or repeated breathing of vapour.
<b>SKIN CONTACT:</b>	No special precautions are known to company.
<b>EYES:</b>	Avoid contact with eyes.

### **7.2. Storage**

Store in cool, dry area away from sun and heat.

Store away from foodstuffs.

Ensure stocks are rotated in accordance with expiry date noted on the containers.

Store away from alkalis and alkaline phenolic resins.

## 8. Exposure Controls/Personal Protection

### 8.1. Exposure Controls

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programmes are adequate.

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentrations below acceptable levels. Refer to Section 8.3 which details specific exposure limits where applicable.

### 8.2. Personal Protection

Wear synthetic apron and boots if contact is likely. Where air contaminants can exceed acceptable criteria, use approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air. Use goggles and face shield if contact is likely. Wear impervious gloves as required to prevent skin contact.

### 8.3. Exposure Guidelines

Phosphoric Acid		7664-38-2	
UKWEL	8-hr TWA	1 mg/m3	Skin EH40/2005
UKWEL	STEL (15 min)	2 mg/m3	EH40/2005

## 9. Physical and Chemical Properties

Appearance	Clear, colorless liquid
Boiling Point	100 °C
Flash point	Not applicable
Vapour Pressure	As water
Flammability	Non-flammable
Autoignition Temperature	Not applicable
Upper explosion limit	Not applicable
Lower explosion limit	Not applicable
Oxidizing Properties	Not determined
pH	< 3
Relative Density	1.2
Partition Coefficient	Not available

## 10. Stability and Reactivity

Normally considered stable and inert.

**Hazardous polymerisation:** Will not occur.

**Materials to avoid:** Bases.

**Conditions to avoid:** Heat may cause pressure build-up in sealed containers.

**Thermal decomposition products may include:** Phosphorus oxides.

**Other Hazards:** None known to company.

## **11. Toxicological Information**

### **11.1. Immediate Hazards**

**INGESTION:** May be harmful if accidentally swallowed. Irritation to mucous membranes, oesophagus or gastro-intestinal tract can result.

**INHALATION:** Irritating to respiratory system. Liquid or vapour may cause irritation of nose, throat and lungs.

**SKIN:** Irritating to skin.

**EYES:** Irritating to eyes.

## **12. Ecological Information**

**Mobility:** Mobile liquid  
Completely water soluble

**Degradability:** Not tested but expected to be readily biodegradable.

**Bioaccumulative potential:** Bio-accumulative potential is minimal.

**Aquatic toxicity:** Toxicity to bacteria, algae and higher marine organisms not tested. COD: Not determined.

## **13. Disposal Considerations**

DO NOT reuse containers containing residual product without commercial cleaning. All waste should be disposed of using a Registered Waste Carrier operating under the Environmental Protection Act (Duty of Care) Regulations 1992 (S.I. No. 2839).

## **14. Transport Information**

### **International transport regulations**

#### **• ADR/RID**

<b>Proper shipping name</b>	PHOSPHORIC ACID, LIQUID
<b>UN Number</b>	1805
<b>Class</b>	Class 8
<b>Classification Code</b>	C1
<b>Packing group</b>	III
<b>Hazard Identification No. (Kemler Code)</b>	80
<b>Label</b>	8

• **IMO/IMDG**

<b>Proper shipping name</b>	PHOSPHORIC ACID, LIQUID
<b>UN Number</b>	1805
<b>Class</b>	Class 8
<b>Packing group</b>	III
<b>Label</b>	8

• **IATA (Passenger)**

<b>Proper shipping name</b>	PHOSPHORIC ACID, LIQUID
<b>UN/ID number</b>	1805
<b>Class</b>	Class 8
<b>Packing group</b>	III
<b>Label</b>	8

## **15. Regulatory Information**

### **15.1. EU Regulations**

<b>Classification</b>	Health Hazard: Irritant (Xi)
<b>Risk phrases</b>	R36/38 - Irritating to eyes and skin.
<b>Safety phrases</b>	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 - Wear suitable gloves. S60 - This material and/or its container must be disposed of as hazardous waste.

### **15.2. Other Regulations**

This document has been produced in accordance with the Safety Data Sheet Directive, 91/155/EC, as amended by 2001/58/EC. It complies with 2004/73/EC, the 29th adaptation to the Dangerous Substances Directive, 67/548/EC, and 2001/60/EC, the 1st adaptation to the Dangerous Preparations Directive, 1999/45/EC.

Users should satisfy themselves that they have considered any regulations which may apply to the transport, storage, use and disposal of this material and that they comply with the relevant national legislation. A duty of care exists for the user to control Occupational Exposure and Environmental Pollution.

## **16. Other Information**

This product should only be used for intended applications. If in doubt about its use or if further technical information is required please contact the Product Information department of Hexion Specialty Chemicals UK Ltd prior to use. We will also be pleased to supply further information on any references contained herein.

Notice to Users:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determinations of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

