

### 1. Identification of the Product and Company

**Product Name:** IC40  
**Product Use:** Adhesive/Bonding Compound  
**Product Type:** Visible/Ultraviolet Adhesive  
**Address of Manufacturer:** J and S Adhesives Ltd, Lancaster Court, Coldham Road Ind. Estate, Coningsby, Lincolnshire, LN4 4SE, England  
Tel: 0044 (0)1526 344100 Fax: 0044 (0)1526 342800

### 2. Composition Information

Chemical name:	CAS Number	Proportion (%)
Polyurethane Methacrylate Resin		30 ~ 70
Hydroxyalkyl Methacrylate	868 - 77 - 9	30 ~ 50
High Boiling Methacrylate	7534 - 94 - 3	10 ~ 35
Acrylic Acid	79 - 10 - 7	1 ~ 5
1-Hydroxycyclohexyl Phenyl Ketone	947 - 19 - 3	1 ~ 5
2,4,6-Trimethylbenzoyl Diphenylphosphine Oxide	75980 - 60 - 8	1 ~ 5

### 3. Hazards Identification

**Relevant Routes of Exposure:** Eye, skin, inhalation, ingestion

**Potential Health Effects:**

- Inhalation:** May cause weakness, tiredness and headache. Sustained inhalation may cause loss of consciousness
- Skin Contact:** Moderate skin irritation. May cause allergic skin reaction.
- Eye Contact:** Contact with eyes will cause irritation, weeping eyes.
- Ingestion:** May be harmful if swallowed.

### 4. First Aid Measures

- Inhalation:** Remove to fresh air. If symptoms develop and persist, get medical attention.
- Skin Contact:** Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before re-using. Get medical attention if symptoms occur.
- Eye Contact:** Flush with copious amounts of water, preferably lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
- Ingestion:** Do not induce vomiting. Keep individual calm. Obtain medical attention.

### 5. Fire-Fighting Measures

- Flash Point:**  $\geq 93^{\circ}\text{C}$
- Auto-ignition Temperature:** Not available
- Extinguishing Media:** Extinguish fire with dry chemical, foam or carbon dioxide.
- Fire Fighting Procedures:** Wear self-contained breathing apparatus and full protective clothing, cooling the equipment with cold water.
- Hazardous Combustion Products:** Oxides of carbon. Oxides of sulphur. Oxides of nitrogen. Irritating organic vapours.

### 6. Accidental Release Measures

**Environmental Precautions:** Prevent product from entering into drains or open waters.  
**Clean-Up Methods:** Ventilate area of spill. Avoid fumes. Absorb with sand/earth and dispose to chemical waste bin. Dispose in accordance with pertinent local legislation.

### 7. Handling and Storage

**Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash thoroughly after handling.  
**Storage:** For safe storage, store at or below 38°C. Keep in a cool, well ventilated area, away from heat, sparks and open flame. Avoid direct sunlight. Keep container tightly closed until ready for use. Avoid contact with strong oxidisers, strong alkalis, and strong acid and other polymerisation initiators.

### 8. Exposure Controls and Personal Protection

**Engineering Controls:** No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.  
**Respiratory Protection:** Usually do not need special protection, wear self-breathed filtrated gas mask if there is potential to exceed exposure limit(s).  
**Skin Protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves.  
**Eye/Face Protection:** Wear safety chemical goggles/glasses.  
**Body Protection:** Wear general safety clothes.  
**Hand Protection:** Wear chemical safety gloves.  
**Ventilation:** Good general or local exhaust ventilation are required.

### 9. Physical and Chemical Properties

**Appearance and Properties:** Clear liquid.  
**Specific Gravity:** 1.06  
**Odour:** Characteristic  
**Solubility:** Solved in organic solvent. Solved in water slightly.  
**pH:** Not available.  
**Boiling Point:** ≥150°C  
**Melting Point:** Not available  
**Flash Point:** ≥93°C

### 10. Stability and Reactivity

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Exposure to sunlight. Heat, flames and sparks.
<b>Incompatibility:</b>	Strong oxidisers. Strong alkalis. Strong acid, other polymerisation initiators. Reducing agents. Free radical initiators.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon. Oxides of sulphur. Oxides of nitrogen. Phenols.

### 11. Toxicological Information

<b>Estimated oral LD50:</b>	Greater than 5000mg/kg (rat)
<b>Estimated dermal LD50:</b>	Greater than 2000mg/kg (rabbit)

### 12. Ecological Information

<b>Ecological Information:</b>	Not available
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### 13. Waste Disposal

<b>Recommended Method of Disposal:</b>	Dispose of according to local governmental and environment protection department regulations.
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### 14. Transport Information

<b>Proper Transportation Name:</b>	Unrestricted
<b>Air Transportation Name:</b>	Unrestricted
<b>Water Transportation Name:</b>	Unrestricted

### 15. Regulatory Information:

#### European information:

<b>IRRITANT Symbol:</b>	St Andrews Cross. Irritating to eyes and skin.
<b>Symptoms of exposure:</b>	May cause sensitisation to skin contact.
<b>Risk Phrases:</b>	36/38, 43
<b>Safety Phrases:</b>	26, 28, 36/37/39. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/face protection. Protect from heat and light. Ensure adequate ventilation during use.

### 16. Other Information

No liability is accepted for injury, loss, damage or cost arising directly or indirectly from the use of any information contained within this MSDS since the customers treatment of the product is necessarily out of our control. Section 14 of the Sale of Goods Act 1979 is excluded, as is liability for consequential losses. The information in this document has been compiled on the basis of the best available knowledge. It does not imply that the information is complete or accurate in all cases. It is the users responsibility to satisfy himself as to the application of the information and or the recommendations given for his own particular use.