



Product name: **MA441 FILLER**

PRINT DATE: 1/11/2011

REF: Z0038

**Environmental precautions:** Avoid subsoil penetration, Do not let product enter drains,  
**Methods for cleaning up:** Dam up, Scrape-up, Soak up with inert absorbent material,

**7. HANDLING AND STORAGE**

**Handling:** Use only in area provided with appropriate exhaust ventilation, To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Do not smoke  
**Storage:** Keep containers tightly closed in a cool, well-ventilated place

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Chemical Name:** **National occupational exposure limits  
(British COSHH - EH40):**

METHACRYLIC ACID	20ppm
METHYL METHACRYLATE	50ppm
CRYSTALLINE SILICA	
MICROCRYSTALLINE SILICA	

**Engineering measures** In case of insufficient ventilation wear suitable respiratory equipment,

- **Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment,

- **Hand protection:** solvent-resistant gloves

- **Eye protection:** safety glasses, goggles

- **Skin and body protection:** Wear as appropriate

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs, Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	paste.	<b>Colour:</b>	off-white.	<b>Odour:</b>	pungent.
<b>pH:</b>	(50 g/l H <sub>2</sub> O)	n/d	(20 °C)		
<b>Boiling point/range:</b>		101	°C		
<b>Flash point:</b>		10.6	°C		
<b>Explosion limits:</b>		- lower	1.7	vol. %	- upper 12.5 vol. %
<b>Vapour pressure:</b>		28			
<b>Relative density:</b>		- lower	0.93	(20°C)	
		- upper		1.05	

**10. STABILITY AND REACTIVITY**

**Stability:** Stable , Polymerization can occur.

**Conditions to avoid:** Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation, Heating can release vapours which can be ignited.

**Materials to avoid:** oxidizing agents, reducing agents, acids and bases.

**Hazardous decomposition products:** carbon oxides, nitrogen oxides (NO<sub>x</sub>), smoke.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** Effects of breathing high concentrations of vapour may include, bloody urine, damages Central nervous system, Lungs, methacrylic acid;  
 LD50/oral/rat = 1060mg/kg LC50/inhalation/4 h/rat = >1300ppm.  
 Methyl methacrylate monomer; LD50/oral/rat = 7872mg/kg  
 LC50/inhalation/4 h/rat = 7093ppm.

**Local effects:** dermatitis

**Sensitization:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

---

**Long term toxicity:** Prolonged or repeated exposure may cause injuries to liver, kidneys, lungs, nerves and hereditary factors

---

**12. ECOLOGICAL INFORMATION**

**Mobility:** Bioaccumulation, Do not contaminate water,  
**Persistence and degradability:** Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.  
**Bioaccumulation:** Methyl methacrylate monomer: LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm  
**Other information:** formulated product - Not applicable

---

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** In accordance with local and national regulations  
**Contaminated packaging:** In accordance with local and national regulations  
**European waste Catalogue No:** 08 04 99

---

**14. TRANSPORT INFORMATION**

<b>Proper shipping name:</b>	Adhesives		
<b>UN-No:</b>	1133		
<b>ADR/RID Class:</b>	3.	<b>Item:</b>	5 (b)
		<b>HI/UN No:</b>	1133
<b>IMO Class:</b>	3.2	<b>IMDG Page:</b>	3174
<b>EmS:</b>	3-05	<b>MFAG:</b>	330
<b>Proper shipping name:</b>	Adhesives		
<b>ICAO Class:</b>	3.2	<b>UN/ID No:</b>	1133
<b>Proper shipping name:</b>	Adhesives	<b>OTHER:</b>	Contains <7.9 gal are PG III

---

**15. REGULATORY INFORMATION**

**Classification according to European directive on classification of hazardous preparations 93/21/EEC**

- **Contains:** METHYL METHACRYLATE , METHACRYLIC ACID .

water contaminating - 1  
WGH Nr. 154

- **Symbol(s):**



F - Highly flammable



Xi - Irritant

**R-phrases:** R43 - May cause sensitization by skin contact. R36/37/38 - Irritating to eyes, respiratory system and skin..

**S-phrases:** S9 - Keep container in a well-ventilated place.. S15 - Keep away from heat. S16 - Keep away from sources of ignition - No smoking. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.. S29 - Do not empty into drains.. S33 - Take precautionary measures against static discharges.. S40 - To clean the floor and all objects contaminated by this material, use Aqueous solution of isopropanol S1/2 - Keep locked-up and out of reach of children.

---

**16. OTHER INFORMATION**

**Recommended use:** Adhesives.  
**Recommended restrictions:**

**Product name:** MA441 FILLER

**PAGE:** 4 of 4  
**PRINT DATE:** 1/11/2011  
**REF:** Z0038

---

When used in a mixture, read the labels and safety data sheets of all components. All metal parts of the mixing and processing equipment must be earthed.

**Revision date:** 18/05/2011

---

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. From information supplied by: ITW PLEXUS, 30 Endicott Street, Danvers, MA 01923

**PREPARED BY:** Clock Spring Company, L.P.

From Information Supplied By:

Catalyst Systems, Inc

PO BOX 88  
-----

PREPARED ON 7/31/12  
SUPERSEDES:30/06/09

The information in the Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the Company to make sure that the sheet is the latest one issued.