

MATERIAL SAFETY DATA SHEET



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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name:

MA440 ADHESIVE

Supplier:

Clock Spring Company, L.P.
621 LOCKHAVEN DRIVE
Houston, TX 77073
PHONE: 281-590-8491
EMAIL: MSDS@CLOCKSPRING.COM

MANUFACTURER: ITW PLEXUS

30 ENDICOTT STREET
DANVERS, MA 01923
800-851-6692

Emergency telephone number:

(CHEMTREC): USA (800) 424-9300 INTERNATIONAL: 1-703-527-3887
CONTRACT # 5043

ITEM NUMBERS: CS MA440, CS-362 A-H, CS 302 A-H, CS-360 A-H, CS-305 A-H

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
METHYL METHACRYLATE	80-62-6	607-035-00-6	F; R11 Xi; R36/37/38 R43	45-85
METALLIC DIMETHACRYLATE	Trade Secret			1-10

3. HAZARDS IDENTIFICATION

Most important hazards:

Highly flammable, Irritating to eyes, irritating to skin and mucous membranes.

Specific hazards

Inhalation of high vapour concentrations can cause CNS-depression and narcosis, May cause sensitization by skin contact.

4. FIRST AID MEASURES

General advice:

Avoid contact with skin and eyes. Avoid breathing vapours or spray mist.

Inhalation:

Move to fresh air, Consult a physician after significant exposure.

Skin contact:

Remove immediately adhering matter, Wash off immediately with soap and plenty of water, If skin irritation persists, call a physician.

Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Ingestion:

Do not induce vomiting, Drink plenty of water, Call a physician immediately

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

foam, Carbon Dioxide (CO₂), dry chemical

Extinguishing media which must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire

Specific hazards:

In case of fire and/or explosion do not breathe fumes, Flash back possible over considerable distance. Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

Special protective equipment for firefighters:

Cool containers / tanks with water spray, If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated, In case of fire, wear a self contained breathing apparatus

Specific methods:

Standard procedure for chemical fires

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes, Use personal protective equipment, Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions:

Avoid subsoil penetration, Do not let product enter drains

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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 vapors by static electricity discharge, all metal parts of the equipments must be grounded, All metal parts of the mixing and processing equipment must be earthed, 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** (Ref: British COSHH - EH40):

METHYL METHACRYLATE

METALLIC DIMETHACRYLATE

Engineering measures to reduce exposure 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

Form:	paste.	Colour:	off-white.	Odour:	pungent.
pH:	(50 g/l H ₂ O)	7	(20° C)		
Boiling point/range:		101	°C		
Flash point:		10.6	°C		
Melting point/range:		-54	°C		
Flammability (solid, gas):		liquid			
Explosion limits:		- lower	.21	vol. %	- upper 12.5 vol. %
Relative density:		- 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.

Hazardous decomposition products: carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Effects of breathing high concentrations of vapour may include: bloody urine, damages Central nervous system, lungs.

Local effects: dermatitis

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

Long term toxicity: Methylmethacrylate Monomer: LD50/oral/rat = 7872mg/Kg
 LD50/dermal/rabbit = >5,000mg/Kg.LC50/inhalation/4h/rat = 7093 ppm.
 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 / degradability: Methyl methacrylate monomer: Biochemical oxygen demand within
 5 days (BOD5) = 0.14- 0.9 g/g.
Other information: Formulated product - Not applicable

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Dispose surplus of unexposed material as uncured
 plastic waste,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

Proper shipping name:		Adhesives.	
UN-No:		1133	
ADR/RID	Class:	Item:	5 (b)
		HI/UN No:	1133
IMO	Class:	IMDG Page:	3174
	EmS:	MFAG:	330
Proper shipping name:		Adhesives.	
ICAO	Class:	UN/ID No:	1133
Proper shipping name		OTHER:	Containers <30 Liters are PG III

15. REGULATORY INFORMATION

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

- **Contains:** METHYL METHACRYLATE

water contaminating - 1
 WGH Nr. 154

- **Symbol(s):**



F



Xi

R -phrase(s): R43 - May cause sensitization by skin contact. R36/37/38 - Irritating to eyes,
 respiratory system and skin.

S -phrase(s): S2 - Keep out of reach of children. S 9 - Keep container in a well-ventilated place.
 S16 - Keep away from sources of ignition - No smoking. S29 - Do not empty into
 drains. S33 - Take precautionary measures against static discharges.

16. OTHER INFORMATION

Recommended use: Adhesives

Recommended restrictions:

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.

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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:

ITW PLEXUS
30 ENDICOTT STREET
DANVERS, MA 01923

Prepared on 7/31/12
SUPERCEDES MAY 2009

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 on issued.