# CLOCK SPRING®

## MATERIAL SAFETY DATA SHEET

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

## Product name:

Supplier:

MA441 FILLER Clock Spring Company, L.P. 621 Lockhaven Drive Houston, TX 77073 USA

MANUFACTURER: ITW PLEXUS 30 ENDICOTT STREET DANVERS, MA 01923 PHONE: 800-851-6692

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

PART NUMBERS: CS-400, CS 450A, CS-450B, CS 420, CS 452A, CS 452B

2. COMPOSITION/INFO	RMATIO	N ON INGREDIE	NTS			
Identification of the	preparat	ion				
Chemical Name			CAS-No	EEC-No	Class	Weigh %
METHACRYLIC ACID			79-41-4	607-088- 00-5	C; R34	1-10
METHYL METHACRYLA	TE		80-62-6	607-035- 00-6	F; R11 Xi; R36/37/38 R43	20-40
CRYSTALLINE SILICA			14808607			30-60
MICROCRYSTALLINE S	ILICA		1317959			<1
3. HAZARDS IDENTIFI	CATION					
Most important haza	ards:	Highly flammable, membranes	Irritating to eyes	, Irritating to skin	and mucous	
Specific hazards		Inhalation of high narcosis, May cau			CNS-depression and	
4. FIRST AID MEASUR	ES					
General advice:	Avoid co	ntact with skin and e	yes. Avoid breath	ning vapours or s	pray 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 the physiciar	proughly with plenty on,	of water for at lea	ast 15 minutes an	d consult a	
Ingestion:	Do not ir	duce vomiting,Drink	plenty of water,C	Call a physician in	nmediately.	
5. FIRE-FIGHTING ME	ASURES					
Suitable extinguishi	ing media	foam,carbc	on dioxide (CO,)	dry chemical,		
Extinguishing media	a which n	nust not be used	l for safety re	asons:		
Do not use a solid water	stream as it	may scatter and spre	ead fire			
Specific hazards:	over co highly e	vent of fire and/or exp nsiderable distance,F xothermic reaction an osition and/or rupture	Polymerization ca nd may generate	ın occur. Polymei	rization is a	
Special protective e		•		ool containers / t	anks with spray water, If	
	•••	5			osed to fire and if	
					let fire burn itself out since	
					e the area contaminated, In	
				ne event of fire, w pparatus	ear self contained breathing	
			а,			

## Personal precautions:

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

Fersonal precautic

Product name: MA441 FILLER

Environmental preca	autions:	Avoid subsoil p	enetration, Do n	ot let product	enter drains,			
			void subsoil penetration, Do not let product enter drains, am up, Scrape-up, Soak up with inert absorbent material,					
7. HANDLING AND STO								
Handling:	Use only in vapours by grounded.D	se only in area provided with appropriate exhaust ventilation, To avoid ignition of apours by static electricity discharge, all metal parts of the equipment must be rounded.Do not smoke						
Storage:	Keep conta	iners tightly closed in	a cool, well-ver	ntilated place				
8. EXPOSURE CONTRO								
Chemical Name:		National occupation (British COSHH -		ure limits				
METHACRYLIC ACID				20ppm				
METHYL METHACRYLA	ΓE			50ppm				
CRYSTALLINE SILICA								
MICROCRYSTALLINE S								
Engineering measur	es	In case of ir equipment,	nsufficient ventila	ation wear suit	able respirato	ſy		
- Respiratory protection:		In case of ir equipment,	nsufficient ventila	ation wear suit	able respirato	rу		
- Hand protection:		solvent-resi	stant gloves					
- Eye protection:		safety glass	es, goggles					
- Skin and body pro	otection:	Wear as ap	propriate					
Hygiene measures:		before brea	from food, drink ks and immedia equipment, work	tely after hand	lling the produ			
9. PHYSICAL AND CHE		ROPERTIES						
Form: paste.		Colour:	off-white.		Odour:	pung	ent.	
<b>pH:</b> (50 g/l H2	2O)	n/d	(20°C)					
Boiling point/range:		101	°C					
Flash point:		10.6	°C					
Explosion limits:		- lower	1.7	vol. %	- upper	12.5	vol. %	
Vapour pressure:		28						
Relative density:		- lower	0.93	(20	)°C)			
field. Fo defieldy		- upper	0.00	1.05	, 0)			
0. STABILITY AND RE				1.00				
	-							
Stability:		table, Polymerization						
Conditions to avoid	radiation, Heating can release vapours which can be ignited.							
Materials to avoid: oxidizing agents, reducing agents, acids and bases.								
Hazardous decompo	sition pro	oducts:	carbon oxides, n	itrogen oxides	(NOx), smok	e		
11. TOXICOLOGICAL II	NFORMAT	ΓΙΟΝ						
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:		nhalation/4 h/rat =						

	•	s and hereditary factors	ay cause injuries to liver, kidne	eys, lungs,			
12. ECOLOG	ICAL INFORMATIO	N					
Mobility:		Bioaccumulation, D	o not contaminate water,				
Persistend	ce and degradabilit		Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.				
Bioaccum	ulation:		e monomer: LC50/96h/fathead egill sunfish = 232ppm	minnows = 150			
Other info	rmation:	formulated product	- Not applicable				
13. DISPOSA	L CONSIDERATION	NS					
Waste fror	n residues / unuse	d products: In	accordance with local and nati	onal regulations			
Contamina	ated packaging:	In accordance	e with local and national regulation	ations			
European v	waste Catalogue No	<b>b:</b> 08 04 99					
_	per shipping name						
	UN-No:	1133					
ADR/RID	Class:	3.	Item:	5 (b)			
			HI/UN No:	1133			
IMO	Class:	3.2	IMDG Page:	3174			
	EmS:	3-05	MFAG:	330			
Proper shippi	ng name:	Adhesives					
ICAO	Class:	3.2	UN/ID No:	1133			
<b>D</b>	per shipping name	Adhesives	OTHER:	Contains <7.9 gal are PG III			
Pro	per snipping name						
15. REGULA	TORY INFORMATIC	-	n electification of her	erdene preparatione			
15. REGULA	TORY INFORMATIO	-	n classification of haz	ardous preparations			
15. REGULA Classifica	TORY INFORMATION tion according to	-		ardous preparations			
15. REGULA Classifica 93/21/EEC	TORY INFORMATIC tion according to s: M	European directive o		ardous preparations			
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15. REGULA Classifica 93/21/EEC - Contain	TORY INFORMATION tion according to s: M (s): F fla s): R43 - May ca	European directive o IETHYL METHACRYLATE , M ater contaminating - 1 /GH Nr. 154	METHACRYLIC ACID .				
15. REGULA Classifica 93/21/EEC - Contain	TORY INFORMATION tion according to us: M (s): F fla s): R43 - May ca respiratory sy	European directive o IETHYL METHACRYLATE , M ater contaminating - 1 /GH Nr. 154 - Highly Xi - I ammable use sensitization by skin cont stem and skin	METHACRYLIC ACID .	/es,			
15. REGULA Classifica 93/21/EEC - Contain - Symbole R-phrase(s	TORY INFORMATION tion according to s: M (s): F fa s): R43 - May ca respiratory sy s): S9 - Keep coon Keep away fro	European directive o IETHYL METHACRYLATE , M ater contaminating - 1 /GH Nr. 154 - Highly Xi - 1 ammable use sensitization by skin cont stem and skin ntainer in a well-ventilated pla om sources of ignition - No sm	METHACRYLIC ACID . rritant act. R36/37/38 - Irritating to ey	ves, at. S16 - t with			
15. REGULA Classifica 93/21/EEC - Contain - Symbole R-phrase(s	TORY INFORMATIC tion according to is: M (s): F (s): R43 - May ca respiratory sy (s): S9 - Keep con Keep away fr eyes, rinse irr empty into dra	European directive o IETHYL METHACRYLATE , M ater contaminating - 1 /GH Nr. 154 - Highly Xi - 1 ammable use sensitization by skin cont stem and skin Intainer in a well-ventilated pla om sources of ignition - No sm mediately with plenty of wate ains S33 - Take precautiona	METHACRYLIC ACID . rritant act. R36/37/38 - Irritating to ey ce S15 - Keep away from hea noking. S26 - In case of contac	ves, at. S16 - t with :9 - Do not charges			

#### **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.

#### Revision date: 7/31/12

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.

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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.