

Revision date: 26-Apr-2012

Supersedes: 17-Aug-2011

MSDS Number: 10868

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

Product name: M-P-A® 60-X

Product Use Description: Rheological additive

Company/Undertaking Identification:	Elementis Specialties, Inc.	Elementis UK Ltd.
	469 Old Trenton Road	c/o Elementis GmbH
	East Windsor, NJ 08512	Stolberger Str. 370
	USA	50933 Cologne, Germany
	Tel: (609) 443-2000	Tel. +49 (0) 221 2923 2000

Emergency telephone number: For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis Specialties at: 1-609-443-2000 (USA) or +(49)-221-2923-2000 (EU)

Product_Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:	Paste
Color:	White
Odor:	Aromatic

WARNING

FLAMMABLE SOLID

Harmful by inhalation and in contact with skin

May be harmful if swallowed

Irritating to skin and mucous membranes

May cause slight eye irritation

May cause irritation of respiratory tract

Vapours may cause drowsiness and dizziness

CONTAINS CHEMICAL(S) WHICH MAY CAUSE CANCER

Risk of cancer depends on level and duration of exposure

Long term exposure to airborne concentrations may cause lung damage

Potential health effects:

- Eye contact:** May cause slight eye irritation. Signs and symptoms include burning, tearing, redness and swelling.
- Skin contact:** Harmful in contact with skin. Irritating to skin and mucous membranes.
- Inhalation:** Harmful by inhalation. May cause irritation of respiratory tract. Vapors may cause drowsiness and dizziness. Long term exposure to airborne concentrations may cause lung damage.
- Ingestion:** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Routes of exposure: Inhalation, Skin, Ingestion

Target Organs: Skin, Respiratory system, Central nervous system

See Sections 11 & 12 for additional toxicological and ecological information

Environmental hazard: See Section 12, below

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Components	CAS-No	Weight %
Ethyl benzene	100-41-4	10 - 25 %
Xylene, Mixed isomers, pure	1330-20-7	50 - 100 %

This product is considered hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST AID MEASURES

- Inhalation:** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.
- Skin contact:** Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- Eye contact:** Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash Point: 70 °F / 21 °C

Flash Point Method: TCC

Autoignition temperature:	Not selfigniting
Unusual Fire and Explosion Hazards:	Emits toxic fumes under fire conditions.
Reactivity Hazard:	None known
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Hazardous combustion products:	Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x).
Special Fire Fighting Procedure:	Wear self contained breathing apparatus for fire fighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
Clean-up methods:	Soak up with inert absorbent material and dispose of as hazardous waste. Sweep up and shovel into suitable containers for disposal. Prevent product from entering drains. Clean contaminated surface thoroughly. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

Handling:	Take precautionary measures against static discharges. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.
Storage:	Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.
Additional Storage:	Not required under normal use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:	Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH/MSHA approved respirator whenever exposure limits exceeded.
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Personal Protective Equipment

Eye protection:	Tightly fitting safety goggles
Skin and body protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place
Respiratory protection:	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

Hand protection: Protective gloves, Neoprene gloves, Nitrile rubber

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Exposure controls

Components	OEL - Long-term TWA	OES - Short-term STEL
Xylene, Mixed isomers, pure	220 mg/m ³ 50 ppm	441 mg/m ³ 100 ppm

Components	OSHA STEL	OSHA PEL	OSHA TWA	ACGIH STEL	ACGIH TWA
Ethyl benzene	125 ppm 545 mg/m ³	100 ppm 435 mg/m ³	435 mg/m ³ 100 ppm		20 ppm
Xylene, Mixed isomers, pure	150 ppm 655 mg/m ³	100 ppm 435 mg/m ³	435 mg/m ³ 100 ppm	150 ppm 651 mg/m ³	100 ppm 435 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Paste

Color: White

Odor: Aromatic

Physical state: Solid (paste)

Vapor pressure: 5.1 mm Hg

Vapor density: Heavier than air

Boiling point/range: 279 °F / 137 °C

Solubility: Water insoluble

Specific Gravity: 0.87

Flash Point: 70 °F / 21 °C

Ignition temperature: 428 (°C)

Explosive properties: Vapors may form explosive mixtures with air

Explosion limits: LEL 1.1 Vol%
UEL 6.6 Vol%

Solvent content:

Percent Volatile: 70 - 75 %

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions
Conditions to avoid:	Heat, flames and sparks
Materials to avoid:	Oxidizing agents
Hazardous decomposition products:	No decomposition if stored normally
Possibility of Hazardous Reactions:	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components	LC50/inhalation/4h/Rat	LD50/Dermal/Rat	LD50/Oral/Rat
Ethyl benzene	17.2 mg/L	15.35 g/kg (rabbit)	3500 mg/kg (rat)
Xylene, Mixed isomers, pure	5334 mg/L	4350 mg/kg (rabbit)	4300 mg/kg (rat)

Local effects

Skin irritation:	Harmful in contact with skin. Irritating to skin and mucous membranes.
Eye irritation:	Contact with eyes may cause irritation.
Inhalation:	Harmful by inhalation. May cause irritation of respiratory tract.
Ingestion:	May be harmful if swallowed, avoid ingestion. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sensitization:	No sensitizing effects known.
Chronic toxicity:	No data is available on the product itself

Specific effects

Components	NTP	IARC	OSHA
Ethyl benzene		Group 2B - Possibly Carcinogenic to Humans	Present
Xylene, Mixed isomers, pure		Group 3 - Unclassifiable as to Carcinogenicity to Humans	

Carcinogenic effects:	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)
Target Organs:	Skin, Respiratory system, Central nervous system

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

Components	LC50/96hr/48hr/24hr	EC50/96hr/48hr/24hr	Bioaccumulation Concentration Factor	No Observable Effect Concentration/96hr/48hr/24hr (NOEC)
Ethyl benzene	150 mg/L (L. macrochirus; 96hr)	438 mg/L (S. capricornutum; 96hr)	No data available	No data available
Xylene, Mixed isomers, pure	13.5 mg/L (Rainbow trout)	3.82 mg/L (water flea; 48hr)	No data available	No data available

Persistence and degradability:

No data available

Environmental Fate and Pathways:

Mobility:

No data available

Biodegradability:

No data available

Bioaccumulative potential:

No data available

Physical / Chemical:

No data available

BOD/COD:

COD-value:

No data available

BOD5-value:

No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with Local and National regulations.

RCRA Hazardous Waste:

RCRA:

Characteristic Waste - D001 (ignitable)

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: 'FLAMMABLE SOLID, ORGANIC, N.O.S. (XYLENE, ETHYLBENZENE)'
UN-No: 1325
Packing group: II
Hazard Class: 4.1

14. TRANSPORT INFORMATION

Hazard Labels: 4.1
DOT RQ (lbs): 100 lbs (based on Xylene content)
Marine pollutant: NO

International Air Transportation (ICAO/IATA):

Proper shipping name: 'FLAMMABLE SOLID, ORGANIC, N.O.S. (XYLENE, ETHYLBENZENE)'
UN-No: 1325
Packing group: II
Hazard Class: 4.1
Hazard Labels: 4.1

International Maritime Organization (IMO/IMDG):

Proper shipping name: 'FLAMMABLE SOLID, ORGANIC, N.O.S. (XYLENE, ETHYLBENZENE)'
UN-No: 1325
Packing group: II
Hazard Class: 4.1
Hazard Labels: 4.1
EmS: F-A, S-G
IMDG - Marine Pollutants: NO

Surface Shipments in Europe (ADR/RID):

ADR/RID: 4.1 Flammable solids
UN-No: 1325
Packing group: II
Hazard Class: 4.1
Hazard Labels: 4.1
Proper shipping name: 'FLAMMABLE SOLID, ORGANIC, N.O.S. (XYLENE, ETHYLBENZENE)'

15. REGULATORY INFORMATION

Heavy metals:

Heavy metals content (ppm): Not applicable

International Inventories

TSCA/ (USA)	Listed	EINECS/ (EU)	Listed
DSL/ (CANADA)	Listed	NDSL/ (CANADA)	Not applicable
ENCS/ (JAPAN)	Listed	IECSC/ (CHINA)	Listed
PICCS/ (PHILLIPINES)	Listed	KECL (KOREA)	Listed
AICS/ (AUSTRALIA)	Listed	HSNO/ New Zealand:	Listed
NECSI/ (TAIWAN)	Listed		

U.S. Regulations**TSCA Section 12(b) Export Notification**

Xylene, Mixed isomers, pure (CAS #Section 4 (as p-Xylene CAS# 106-42-3); 1% de minimus concentration 1330-20-7)

SARA Title III:

Section 302 EHS:	None	Section 311/312:	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Section 313:	This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):	Xylene, Mixed isomers, pure (CAS # 1330-20-7) <i>Listed</i> Ethyl benzene (CAS # 100-41-4) <i>Listed</i>	

California Prop. 65:

The following statement is made in order to comply with the California Safe Drinking Water and toxic Enforcement Act of 1986:

This Product contains the following substance (s) known to the state of California to cause cancer and/or developmental effects.

Toluene
Benzene

Components	Carcinogen	Reproductive toxicity	No significant risk level
Ethyl benzene	Listed		54 µg/day 41 µg/day

Canada

WHMIS hazard class: B4 Flammable solid

D2B Skin or Eye irritation

D2A Possible, probable or known human carcinogen according to classifications by IARC or ACGIH.

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

HMIS:

Health: 2 *

Flammability: 3

Reactivity: 0

This Material Safety Data Sheet contains changes from the previous version in Sections: 4, 5, 6, 7, 9, 11, 15

Previous Revision Date: 17-Aug-2011

Key/Legend:

N/A: Not applicable
N/D: Not determined
ppm: Parts per million
X: Listed

Prepared by: Product Stewardship

The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. ELEMENTIS SPECIALTIES makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon. ELEMENTIS SPECIALTIES warrants only that its products conform with their published specifications, and no other express warranty is made with regards thereof. We do not guarantee favorable results, and we assume no liability in connection with the use of the products. They are intended for use by persons having technical skill and knowledge, at their own discretion and risk.