Material Safety Data Sheet

Issue Date: 12/03/2009

Product Name: MetaForm 7200

Revision: [00]12/03/2009

Section 1 - Chemical Product and Company Identification

Product Name: MetaForm 7200 **Chemical Formula** NA

CAS Number: NA (mixture) **General Use:**

Other Designations NA

Company Name:	Mytex Polymers	**Distributor:**	Same as Manufacturer
Street Address:	1403 Port Road	**Street Address:**	
Town:	Jeffersonville	**Town:**	
State:	IN	**State:**	
Zip Code:	47130	**Zip Code:**	
Emergency Contacts:	Chemtrec 1-800-424-9300	**Other Contacts:**	(812)280-2900

Health	**1**
Fire	**1**
Reactivity	**0**
PPE	**(See Sec. 8)**

<<<>>> EMERGENCY OVERVIEW <<<>>>

This product may cause irritation of the respiratory system, eyes, and skin. This product is stable under normal conditions of use.

May contain >0.1 % Carbon Black, except natural.

Section 2 - Composition and Information on Ingredients

Ingredient **Copolymer of ethylene and butene-1**

	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	NE	NE	NE	mg/cu.meter
STEL	NE	NE	NE	mg/cu.meter
IDLH	NA	NA	NE	mg/cu.meter

Ingredient **Carbon Black**

	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	3.5	3.5	3.5	mg/cu.meter
STEL	NE	NE	NE	mg/cu.meter
IDLH	NA	NA	1750	mg/cu.meter

Ingredient **Copolymer Polypropylene**

	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	NE	NE	NE	mg/cu.meter
STEL	NE	NE	NE	mg/cu.meter
IDLH	NA	NA	NE	mg/cu.meter

Ingredient **Polypropylene**

	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	NE	NE	NE	mg/cu.meter
STEL	NE	NE	NE	mg/cu.meter
IDLH	NA	NA	NE	mg/cu.meter

Ingredient **Talc**

	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	**20 mppcf**	**NE**	**NE**	**mg/cu.meter**
STEL	**2**	**NE**	**NE**	**mg/cu.meter**
IDLH	**NA**	**NA**	**NE**	**mg/cu.meter**

NA

Section 3 - Hazards Identification

Primary Entry Routes:
Absorption, Ingestion, Inhalation

Target Organs:
NA

Inhalation Effects:
Negligible hazard at ambient temperatures (-18 to 38 degrees C; 0 to 100 degrees F). Dust may be irritating to eyes and respiratory tract. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to t the eyes and respiratory tract.

Eye Effects:
Particulates may scratch the eye surfaces/cause mechanical irritation.

Skin Effects:
Exposure to hot material may cause thermal burns. Negligible hazard at ambient temperatures (-18 to 38 degrees C; 0 to 100 degrees F).

Ingestion Effects:
Minimal Toxicity.

Carcinogenicity:
NA

Medical Conditions Aggravated by Long-term Exposure:
None determined.

Chronic Effects and/or Recommendations:
See Section 11 for detailed information on ingredients.

Section 4 - First Aid Measures

Inhalation:
Protect yourself with appropriate PPE, remove the person to fresh air. Decontaminate and begin rescue breathing if breathing has stopped and CPR if heart action has stopped. Seek prompt medical attention.

Eye:
DO NOT allow victim to rub or keep eyes tightly shut. Gently lift eyelids and immediately flush eyes with large amounts of water. Remove any contact lenses. Continue to flush for at least 30 minutes, occasionally lifting the upper and lower lids. Seek prompt medical attention.

Skin:
Quickly remove contaminated clothing. Immediately wash area with large amounts of water. Seek prompt medical attention for any reddened skin other than from washing.

Ingestion:
Never give anything by mouth to an unconscious or convulsing person. Contact a Poison Control Center (PCC). Unless the PCC advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute. Induce vomiting only after recent ingestions due to the possibility of seizures. Seek prompt medical attention.

Additional First Aid Information:

NA

Section 5 - Fire Fighting Measures

Flash Point:	Flash Point Method:
NA	NA
Flammability Classification:	**Auto Ignition Temperature:**
1 Slight (HMIS, NFPA)	ND

LEL:	UEL:	Burning Rate:
NA	NA	NA

Extinguishing Media:

Water spray, dry chemical, foam, carbon dioxide, or halon-type extinguishers.

Unusual Fire / Explosion Hazards:

May form flammable dust-air mixture.

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide, nitrogen oxide, and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form.

Fire-Fighting Instructions:

Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment:

Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Containment Method:

When cleaning up spilled material, keep unnecessary people away, isolate area, and deny entry until the spilled material has been removed. Scoop up material and place in a chemical waste container. Suction up remaining material using a high efficiency vacuum cleaner. Avoid suspending particles in the air. Extreme caution should be used as material presents a slip hazard.

Reporting Requirements:

Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions:

Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.

Storage Requirements:

This product must be stored in a cool, ventilated place. Avoid direct sunlight. Avoid freezing and drying of resin. Store in tightly closed containers to prevent moisture contamination.

Regulatory Requirements:

Follow all applicable local, state, and Federal Regulations.

Section 8 - Exposure Controls and Personal Protection

Ventilation

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, peroidic environmental monitoring, maintenance, inspection, cleaning and convenient, sanitary storage areas.

Protective Clothing and Equipment

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full facepiece respiratory protection is worn. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities avalable in work area.

Contaminated Equipment

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

Comments

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or apply cosmetics.

Additional Information

NA

Section 9 - Physical and Chemical Properties

Boiling Point:	**Freezing or Melting Point:**	**Odor Threshold:**	**Physical State:**
NA	NA	ND	Solid
Viscosity:	**Refractive Index:**	**Vapor Density (Air = 1)**	**Appearance and Odor:**
NA	NA	Heavier than air.	White or colored pellets.
% Volatiles:	**Surface Tension:**	**Vapor Pressures:**	**Water Solubility:**
NA	NA	NA	Insoluble
Density:	**Evaporation Rate:**	**Formula Weight:**	**Other Solubilities:**
NA	NA	NA	NA
pH:	**Specifice Gravity where Water = 1 at 4 deg C**		**Additional Comments:**
NA	0.90 Minimum-1.10 Maximum		NA

Section 10 - Stability and Reactivity

Stability:	**Polymerization:**	**Hazardous Decomposition Products:**
Stable under conditions of normal use.	Hazardous polymerization cannot occur.	NA

Chemical Incompatibilities:
NA

Conditions to Avoid:

Temperatures over 250 degrees C/480 degrees F may cause degradation.

Other Comments:

NA

Section 11 - Toxicological Information

Checked box indicates that related health effects criteria applies to the overall mixture.

Eye Effects ☐	**Acute Oral Effects** ☐	**Acute Inhalation Effects** ☐	**Mutagenicity** ☐
Skin Effects ☐	**Chronic Effects** ☐	**Carcinogenicity** ☐	**Teratogenicity** ☐

EXPLANATION of HEALTH EFFECTS:

NA

EXPLANATION of TOXICOLOGICAL CRITERIA:

Chemical Component: **Copolymer of ethylene and butene-1**

Acute oral doses of 7.95 gm/kg fed to rats showed no adverse effects.

Chemical Component: Carbon Black

Carbon Black is listed by IARC as a group 2B (possibly carcinogenic), but IARC monographs vol. 65 and 93 state that there is inadequate evidence in humans for carcinogenicity of carbon black. Inhalation test of a toner for two years* showed no significant carcinogenicity.

*"Negative Effect of Long-Term Inhalation of Toner on Formation of 8-Hydroxydeoxyguanosine in DNA in the Lungs of Rats in Vivo", Yasuo Morimoto, et al, Inhalation Toxicology, vol. 17 (13) 749-753 (2005).

Carbon Black: LD50 4.0 g/kg; add-mus-ihl 6200 ug/m3/16H/12W-I; LD50: oral - rat, > 10 g/kg; LD50: intravenous - rat, 120 mg/kg; LD50: oral - rat, >15400 mg/kg; LD50: skin - rabbit >3g/kg; TCL0: intermittent inhalation - rat, 50mg/M3/6 hours

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Chemical Component: Copolymer Polypropylene

LD50: oral-mouse, >8000 mg/kg (Eastman Kodak)

Chemical Component: Polypropylene

>110g/kg intraperitoneal - rat LD50; >99 g/kg intravenous rat LD50. IARC: Human inadequate evidence, animal inadequate evidence, Group 3.

Chemical Component: Talc

(EXPOSURE LIMITS: Talc, Non-Asbestos Form:
20 mppcf OSHA TWA (<1 quartz)
2 mg/m3 ACGIH TWA (respirable particulate)

IRRITATION DATA:
300 ug/3 day(s) - intermittent inhalation-rat TCLo; 20400 ug/m3/6 hour(s)-26 day(s) intermittent inhalation-mouse TCLo
CARCINOGEN STATUS:
IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3; ACGIH: A4 - not Classifiable as a Human Carcinogen. A two year inhalation study demonstrated clear evidence of carcinogen activity in female rats at exposure levels of 18 mg/m3, as indicated by increased incidences of alveolar/bronchiolar adenomas and carcinogens of the lung, and benign and malignant pheochromocytomas of the adrenal gland. Some evidence of carcinogenic activity (increased incidence of benign and malignant pheochromocytomas of the adrenal gland) was observed in male rats at the same exposure level. No evidence of carcinogenic activity was found in mice (NTP TR-421).
TUMORGENIC DATA:
18 mg/m3 inhalation-rat TCLo/6 hour(s)-2 year(s) intermittent; 11 mg/m3 inhalation-rat TC/1 year(s) intermittent.

HEALTH EFFECTS:
INHALATION:
ACUTE EXPOSURE: Talc, Non Asbestos Form: Exposure to a large concentration of this material may cause mechanical irritation of the mucous membranes and respiratory tract.
CHRONIC EXPOSURE:
Talc, Non-Asbestos Form: Repeated or prolonged inhalation of dust may cause scarring of the lungs (pulmonary fibrosis), with shortness of breath, chronic cough, and heart failure. Recent studies have suggested that prolonged exposure to non-asbestos form talc can produce a symptomatic pneumoconiosis. In a two year study, mice displayed chronic active inflammation and accumulation of macrophages in the lung, as well as cytoplasmic alterations in the upper respiratory tract. Clearance of talc from the lungs was also impaired. In rats, slightly increased lung weight and a variety of inflammatory, reparative and proliferative processes occurred in response to toxic lesions of the lung. Other effects included incidence in respiratory performance. Female rats displayed an increased incidence of alveolar and bronchial adenomas and carcinomas of the lung, while benign and malignant pheochromocytomas of the adrenal gland were observed in both males and females at exposure levels of 18 mg/m3.

SKIN CONTACT:
ACUTE EXPOSURE: Talc, Non-asbestos form: Direct contact with dust may cause mechanical irritation.
CHRONIC EXPOSURE: Talc, Non-asbestos form: Application of 300 ug to human skin intermittently for 3 days produced mild irritation.

EYE CONTACT:
ACUTE EXPOSURE: Talc, Non-asbestos form: Direct contact with dust may cause mechanical irritation of the eyes.
CHRONIC EXPOSURE: Talc, Non-asbestos form: Repeated exposure has caused conjunctival inflammation resulting in symblepharon.

INGESTION:
ACUTE EXPOSURE: Talc, Non-asbestos form: This material is considered to be harmless and inert when ingested. Talc administered orally to rats, mice, and guinea pigs was not translocated from the gastrointestinal tract and was almost totally excreted in the feces within 4 days.
CHRONIC EXPOSURE: Talc, Non-asbestos for: Repeated ingestion of large doses of talc for 13 and 10 successive days by rabbits and mice, respectively, revealed negative teratogenic and carcinogencic results.

Section 12 - Ecological Information

Checked box indicates that information regarding the criteria applies to the overall mixture.

Ecotoxicity ☐ **Environmental Fate** ☐ **Environmental Degradation** ☐ **Soil Absorption and Mobility** ☐

EXPLANATION of APPLICABLE ECOLOGICAL CRITERIA:

NA

Section 13 - Disposal Considerations

Disposal:

Contact your local supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state and local regulations.

Disposal Regulatory Requirements:

NA

Container Cleaning and Disposal:

NA

Section 14 - Transport Information

DOT Transportation Data (49CFR 172.101)		
Shipping Name:	**Label:**	**Passenger Air and Railcar:**
NA	NA	NA
Shipping Symbols:	**Special Provisions:**	**Cargo Aircraft:**
NA	NA	NA
Hazard Class:	**Exceptions:**	**Oceangoing Vessel Stowage:**
NA	NA	NA
ID Number:	**Non-bulk Packaging:**	**Other:**
NA	NA	NA
Packing Group:	**Bulk Packaging:**	
NA	NA	

EXPLANATION of APPLICATION TRANSPORTATION CRITERIA:

NA

Section 15 - Regulatory Information

Checked box(es) indicate that the chemical is subject to the associated regulatory requirements and/or appears on the associated chemical inventory list

Chemical Component: Copolymer of ethylene and butene-1

40 CFR 261.33	☐	**CAA 40 CFR 112**	☐	**TSCA inventory (US)**	☑
40 CFR 261 classified	☐	**SARA 40 CFR 311 and 312**	☐	**AICS inventory (Australia)**	☑
RCRA Section 3001	☐	**SARA 40 CFR 372.65**	☐	**EINECS inventory (Europe)**	☐
CERCLA RQ established	☐	**SARA 40 CFR 355**	☐	**DSL inventory (Canada)**	☑
40 CFR 302.4	☐	**OSHA 1910 1000 Z-1 tables**	☐	**ECL inventory (Korea)**	☐
CWA 40 CFR 311(b)(4)	☐	**OSHA 1910 subpart Z**	☐	**ENCS inventory (Japan)**	☑
CWA 40 CFR 307(a)	☐			**PICCS inventory (Phillipines)**	☑
				CHINA inventory	☐

Chemical Component: Carbon Black

40 CFR 261.33	☐	CAA 40 CFR 112	☐	TSCA inventory (US)	☑
40 CFR 261 classified	☐	SARA 40 CFR 311 and 312	☐	AICS inventory (Australia)	☑
RCRA Section 3001	☐	SARA 40 CFR 372.65	☐	EINECS inventory (Europe)	☑
CERCLA RQ established	☐	SARA 40 CFR 355	☐	DSL inventory (Canada)	☑
40 CFR 302.4	☐	OSHA 1910 1000 Z-1 tables	☐	ECL inventory (Korea)	☑
CWA 40 CFR 311(b)(4)	☐	OSHA 1910 subpart Z	☐	ENCS inventory (Japan)	☑
CWA 40 CFR 307(a)	☐			PICCS inventory (Phillipines)	☑
				CHINA inventory	☑

Chemical Component: Copolymer Polypropylene

40 CFR 261.33	☐	CAA 40 CFR 112	☐	TSCA inventory (US)	☑
40 CFR 261 classified	☐	SARA 40 CFR 311 and 312	☐	AICS inventory (Australia)	☑
RCRA Section 3001	☐	SARA 40 CFR 372.65	☐	EINECS inventory (Europe)	☑
CERCLA RQ established	☐	SARA 40 CFR 355	☐	DSL inventory (Canada)	☑
40 CFR 302.4	☐	OSHA 1910 1000 Z-1 tables	☐	ECL inventory (Korea)	☑
CWA 40 CFR 311(b)(4)	☐	OSHA 1910 subpart Z	☐	ENCS inventory (Japan)	☑
CWA 40 CFR 307(a)	☐			PICCS inventory (Phillipines)	☑
				CHINA inventory	☑

Chemical Component: Polypropylene

40 CFR 261.33	☐	CAA 40 CFR 112	☐	TSCA inventory (US)	☑
40 CFR 261 classified	☐	SARA 40 CFR 311 and 312	☐	AICS inventory (Australia)	☑
RCRA Section 3001	☐	SARA 40 CFR 372.65	☐	EINECS inventory (Europe)	☑
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40 CFR 302.4	☐	OSHA 1910 1000 Z-1 tables	☐	ECL inventory (Korea)	☑
CWA 40 CFR 311(b)(4)	☐	OSHA 1910 subpart Z	☐	ENCS inventory (Japan)	☑
CWA 40 CFR 307(a)	☐			PICCS inventory (Phillipines)	☑
				CHINA inventory	☑

Chemical Component: Talc

40 CFR 261.33	☐	CAA 40 CFR 112	☐	TSCA inventory (US)	☑
40 CFR 261 classified	☐	SARA 40 CFR 311 and 312	☑	AICS inventory (Australia)	☑
RCRA Section 3001	☐	SARA 40 CFR 372.65	☐	EINECS inventory (Europe)	☑
CERCLA RQ established	☐	SARA 40 CFR 355	☐	DSL inventory (Canada)	☑
40 CFR 302.4	☐	OSHA 1910 1000 Z-1 tables	☐	ECL inventory (Korea)	☑
CWA 40 CFR 311(b)(4)	☐	OSHA 1910 subpart Z	☐	ENCS inventory (Japan)	☐
CWA 40 CFR 307(a)	☐			PICCS inventory (Phillipines)	☑
				CHINA inventory	☐

Section 16 - Other Information

Abbreviations: ACGIH - American Conference of Governmental Industrial Hygienists
IDLH - Immediatly Dangerous to Life and Health
NA - Not Applicable to the criteria OR Not Available
ND- Not Determined OR Not Known
NE - None established
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
RCRA - Resource Conservation Recovery Act
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average

Disclaimer: The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. The information above is

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Additional Comments: NA

Revision Notes: NA

<<<<< END OF MSDS>>>>>