

Part A

PRODUCT: 10-097-1, P50200, P20201,  
P50208, P50209**HASTINGS**

FIBER GLASS PRODUCTS, INC.

770 COOK ROAD, PO BOX 218

HASTINGS, MI 49058

PHONE: 269-945-9541 FAX: 269-945-4623

MATERIAL SAFETY DATA  
SHEET**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name Magnolia 39-7-A

Product Code(s) 39-7-A

Synonyms Magnobond 39-7-A

Recommended Use This product contains epoxy constituents that have an average molecular weight of less than or equal to 700.

Manufacturer: Hastings Fiber Glass Products Inc  
770 Cook Rd  
PO Box 218  
Hastings, MI 49058

Emergency telephone number INFOTRAC 1-352-323-3500 (International) - Account 79439  
1-800-535-5053 (North America) - Account 79439

**2. Hazards Identification**

appearance yellow Physical state Semi-Paste Odor Slight ethereal

**Potential health effects**

Principle Routes of Exposure Skin Contact.

**Acute toxicity**

EYES

skin

INGESTION

Avoid contact with eyes.  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.  
Not an expected route of exposure.

**Chronic effects**

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

**Environmental hazard**

There is no known ecological information for this product.

**3. Composition/information on Ingredients**

Formula Not Applicable-Mixture

Chemical name	CAS-No	Weight %
Bisphenol A - Epichlorohydrin polymer	25068-38-6	50-80
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	15-40
Dimethyl silicone polymer with silica	67762-90-7	0-5
Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2	0-5

**Additional Notes**

Remaining components are either not hazardous or below threshold limits.

**4. First aid measures**

General advice	Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. <b>MAY CAUSE ALLERGIC SKIN REACTION.</b>
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
inhalation	Remove from exposure, lie down. If symptoms persist, call a physician.
INGESTION	Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water.
Protection of First-aiders	Obtain medical attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

flash point	> 93.4 °C / > 200 °F			
Suitable extinguishing media	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
Explosion data				
NFPA	Health hazard 2	flammability 1	stability 0	Physical and Chemical Hazards -

### 6. Accidental release measures

Personal precautions	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Methods for cleaning up	Soak up with inert absorbent material.
OTHER INFORMATION	Ventilate the area.

### 7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat, sparks and open flame. No smoking.
Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face Protection	Safety glasses with side-shields.
Skin and body protection	Rubber gloves.
Hygiene Measures	Wash hands before breaks and at the end of workday.

### 9. Physical and Chemical Properties

appearance	yellow	Odor	Slight ethereal
Physical state	Semi-Paste		
flash point	> 93.4 °C / > 200 °F	Autoignition temperature	no data available
Boiling Point/Range	> 107.3 °C 225 °F	Flammability Limits in Air	No information available
Explosion Limits	No information available		

Specific gravity	1.15	Water solubility	negligible
solubility	No information available	evaporation rate	(butyl acetate=1): <1
vapor pressure	negligible	vapor density	No information available
viscosity	Data available upon request		

### 10. Stability and Reactivity

stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents. Amines.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Carbon oxides. Phenols. Aromatic hydrocarbons.
Hazardous polymerization	Hazardous polymerization does not occur.

### 11. Toxicological Information

#### Acute toxicity

Product Information	The product itself has not been tested.
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#### Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bisphenol A - Epichlorohydrin polymer	11400 mg/kg ( Rat )		

#### Chronic toxicity

Chronic toxicity	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.
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carcinogenicity	Carcinogenic potential is unknown.
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Chemical name	ACGIH	IARC	NTP	OSHA
Cadmium zinc sulfide ((Cd,Zn)S)	A2			

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Bisphenol A - Epichlorohydrin polymer	Group III Chemical		

### 12. Ecological Information

#### ecotoxicity

The environmental impact of this product has not been fully investigated.

### 13. Disposal Considerations

Waste Disposal Method	Dispose of contents/container in accordance with local regulation.
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Chemical name	California Hazardous Waste Status
Cadmium zinc sulfide ((Cd,Zn)S)	Toxic

### 14. Transport Information

<b>DOT</b>	Not regulated
<b>IATA</b>	
UN-No	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
Hazard Class	9
Packing group	III
<b>IMDG/IMO</b>	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
Hazard Class	9
UN-No	3082
Packing group	III
EmS No.	F-A, S-F
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

### 15. Regulatory information

#### International Inventories

Chemical name	TSCA	DSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS	NZIoC
Bisphenol A - Epichlorohydrin polymer - 25068-38-6	XU	X	X	(7)-1283	X	KE-24000	X	X	X
Phenol, polymer with formaldehyde, glycidyl ether - 28064-14-4	XU	X		(7)-1285	X	KE-28226	X	X	X
Dimethyl silicone polymer with silica - 67762-90-7	XU	X			X	KE-31207	X	X	X
Cadmium zinc sulfide ((Cd,Zn)S) - 12442-27-2	Present	X	X		X	KE-04449	X	X	X

#### U.S. Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2	0-5	0.1

##### SARA 311/312 Hazard Categories

Chronic Health Hazard	Chronic Health Hazard
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

##### Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Cadmium zinc sulfide ((Cd,Zn)S) 12442-27-2 (0-5)		X		

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors

Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2	0-5	Present (includes any unique chemical substance that contains Cadmium as part of its infrastructure)			
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CERCLA

**U.S. State Regulations**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cadmium zinc sulfide ((Cd,Zn)S) 12442-27-2 ( 0-5 )				X	

**International Regulations**

Mexico - Grade No information available

Chemical name	Carcinogen Status	Exposure Limits
Cadmium zinc sulfide ((Cd,Zn)S)	A2	

CANADA

Chemical name	WHMIS Hazard Class
Bisphenol A - Epichlorohydrin polymer - 25068-38-6	D2B

**16. Other information**

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td></td> <td>2</td> </tr> <tr> <td></td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>		2		1	Reactivity	0		Not regulated
	2								
	1								
Reactivity	0								

Prepared by

Magnolia Advanced Materials, Inc.  
5547 Peachtree Blvd.  
Chamblee, GA 30341

Revision date

October 7, 2013

Revision note

No information available.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

Part B

PRODUCT: 10-097-1, P50200, P20201,  
P50208, P50209



# HASTINGS

FIBER GLASS PRODUCTS, INC.

770 COOK ROAD, PO BOX 218

HASTINGS, MI 49058

PHONE: 269-945-9541 FAX: 269-945-4623

Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Magnobond 39-7-B

**Product Code(s)** 39-7-B

**UN-No** 3267

**Synonyms** Magnolia 39-7-B

**Recommended Use** Amine curing agent.

**Manufacturer:** Hastings Fiber Glass Products Inc  
770 Cook Rd  
PO Box 218  
Hastings, MI 49058

**Emergency Telephone Number** INFOTRAC 1-352-323-3500 (International) - Account 79439  
1-800-535-5053 (North America) - Account 79439

## 2. HAZARDS IDENTIFICATION

**Appearance** Amber      **Physical State** Semi-Paste      **Odor** Amine

**Potential Health Effects**  
**Principle Routes of Exposure** Skin contact.

**Acute Toxicity**

**Eyes** Avoid contact with eyes.

**Skin** Avoid contact with skin.

**Chronic Effects**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Formula** Not Applicable-Mixture

Chemical Name	CAS-No	Weight %
Calcium Carbonate	1317-65-3	40-70
Tetraethylenepentamine	112-57-2	1-10
Furfuryl alcohol	98-00-0	1-10
Silica, amorphous, fumed, crystal-free	112945-52-5	1-10
Bisphenol A	80-05-7	0-5
Triethylene tetramine	112-24-3	0-5

**Additional Notes** Remaining components are either not hazardous or below threshold limits.

## 4. FIRST AID MEASURES

**General Advice** Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. May cause allergic skin reaction.

<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove from exposure, lie down. If symptoms persist, call a physician.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Obtain medical attention.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point Method</b>	> 200 °C / > 392 °F (based on components)			
<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>Hazardous Combustion Products</b>	Ammonia.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
<b>Methods for Containment</b>	Dike to collect large liquid spills.
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.
<b>Other Information</b>	Ventilate the area.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat, sparks and open flame. No smoking.
<b>Storage</b>	Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 1317-65-3		TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Furfuryl alcohol 98-00-0	15 ppm STEL TWA: 10 ppm	TWA: 50 ppm TWA: 200 mg/m <sup>3</sup>	IDLH: 75 ppm TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 15 ppm STEL: 60 mg/m <sup>3</sup>

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Rubber gloves.
<b>Hygiene Measures</b>	Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Amber	<b>Odor</b>	Amine
<b>Physical State</b>	Semi-Paste		
<b>Flash Point</b>	> 200 °C / > 392 °F	<b>Method</b>	(based on components)
<b>Autoignition Temperature</b>	No data available	<b>Boiling Point/Range</b>	> 200 °C / 392 °F
		<b>Flammability Limits in Air</b>	No information available
<b>Explosion Limits</b>	No information available		
<b>Specific Gravity</b>	1.60	<b>Water Solubility</b>	Negligible
<b>Solubility</b>	No information available	<b>Evaporation Rate</b>	(butyl acetate=1): <1
<b>Vapor Pressure</b>	Negligible	<b>Vapor Density</b>	No information available
<b>Viscosity</b>	Data available upon request		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions. Hygroscopic.
<b>Incompatible Products</b>	Incompatible with strong acids and bases. Oxidizing agents. Sodium hypochlorite.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Ammonia. Hazardous decomposition products formed under fire conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** The product itself has not been tested.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetraethylenepentamine	2100 mg/kg ( Rat )	660 mg/kg ( Rabbit )	
Furfuryl alcohol	177 mg/kg ( Rat )	3825 mg/kg ( Rat ) 400 mg/kg ( Rabbit )	233 ppm ( Rat ) 4 h
Silica, amorphous, fumed, crystal-free	3160 mg/kg ( Rat )		
Bisphenol A	3200 mg/kg ( Rat )	3000 mg/kg ( Rabbit )	
Triethylene tetramine	2500 mg/kg ( Rat )	550 mg/kg ( Rabbit )	

### Chronic Toxicity

**Sensitization** May cause sensitization of susceptible persons.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Furfuryl alcohol	Group III Chemical		
Bisphenol A	Group I Chemical	High Exposure Concern	Industrial chemical

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Tetraethylenepentamine	EC50 = 2.1 mg/L 72 h	LC50= 420 mg/L Poecilia reticulata 96 h		= 24.1 mg/L EC50
Furfuryl alcohol		LC50= 32 mg/L Pimephales promelas 96 h		= 328 mg/L EC50
Bisphenol A	EC50 = 2.5 mg/L 96 h	LC50 3.6-5.4 mg/L Pimephales promelas 96 h LC50 4.0-5.5 mg/L Pimephales promelas 96 h LC50= 4 mg/L Oncorhynchus mykiss 96 h LC50= 9.9 mg/L Brachydanio rerio 96 h		9.2 - 11.4 mg/L EC50 = 10.2 mg/L EC50 = 3.9 mg/L EC50
Triethylene tetramine	EC50 = 2.5 mg/L 72 h EC50 = 20 mg/L 72 h EC50 = 3.7 mg/L 96 h	LC50= 495 mg/L Pimephales promelas 96 h LC50= 570 mg/L Poecilia reticulata 96 h		= 31.1 mg/L EC50
<b>Chemical Name</b>			<b>Log Pow</b>	
Tetraethylenepentamine			< 1	
Bisphenol A			= 2.2	
Triethylene tetramine			= -1.4	

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

#### DOT

**Proper Shipping Name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TETRAETHYLENEPENTAMINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**UN-No** 3267  
**Packing Group** III

#### IATA

**UN-No** 3267  
**Proper Shipping Name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TETRAETHYLENEPENTAMINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**Packing Group** III

#### IMDG/IMO

**Proper Shipping Name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TETRAETHYLENEPENTAMINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**UN-No** 3267  
**Packing Group** III

### 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS	NZIOC
Calcium Carbonate - 1317-65-3	Present		X		X	KE-21996	X	X	X

Tetraethylenepentamine - 112-57-2	Present	X	X	(2)-162	X	KE-01347	X	X	X
Furfuryl alcohol - 98-00-0	Present	X	X	(5)-31	X	KE-17364	X	X	X
Silica, amorphous, fumed, crystal-free - 112945-52-5		X		(1)-548	X	KE-30953	X	X	X
Bisphenol A - 80-05-7	Present	X	X	(4)-123	X	KE-23982	X	X	X
Triethylene tetramine - 112-24-3	Present	X	X	(2)-163	X	KE-02911	X	X	X

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Bisphenol A	80-05-7	0-5	1.0

**SARA 311/312 Hazard Categories**

Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Tetraethylenepentamine	112-57-2	1-10		Group V		
Bisphenol A	80-05-7	0-5		Group III		

**CERCLA****U.S. State Regulations**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium Carbonate 1317-65-3 ( 40-70 )	X	X	X		X
Tetraethylenepentamine 112-57-2 ( 1-10 )	X	X	X		
Furfuryl alcohol 98-00-0 ( 1-10 )	X	X	X		X
Bisphenol A 80-05-7 ( 0-5 )	X	X	X		
Triethylene tetramine 112-24-3 ( 0-5 )	X	X	X		

**International Regulations**

**Mexico - Grade** No information available

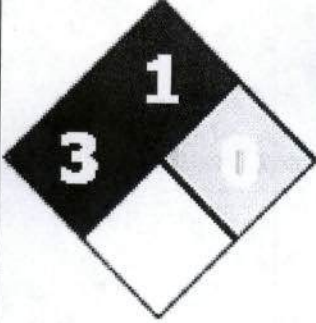


Chemical Name	Carcinogen Status	Exposure Limits
Calcium Carbonate		Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 20 mg/m <sup>3</sup>
Furfuryl alcohol		Mexico: TWA 10 ppm Mexico: TWA 40 mg/m <sup>3</sup> Mexico: STEL 15 ppm Mexico: STEL 60 mg/m <sup>3</sup>

**Canada**

Chemical Name	WHMIS Hazard Class
Calcium Carbonate - 1317-65-3	D2A
Tetraethylenepentamine - 112-57-2	1 D1B E
Furfuryl alcohol - 98-00-0	1
Bisphenol A - 80-05-7	1 D2A D2B
Triethylene tetramine - 112-24-3	1 D1B D2B E

Chemical Name	NPRI
Bisphenol A	X

### 16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td></td> <td>3</td> </tr> <tr> <td></td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>		3		1	Reactivity	0		
	3								
	1								
Reactivity	0								

Prepared By Magnolia Advanced Materials, Inc.  
5547 Peachtree Blvd.  
Chamblee, GA 30341

Revision Date April 25, 2013

Revision Note No information available.

#### Disclaimer

This product is intended to be used as a printing fluid. The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS