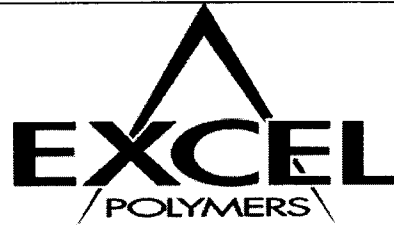


**EXCEL POLYMERS LLC****MATERIAL SAFETY DATA SHEET****POLYBOUND 368 ZMBT-80 BROWN**

Version Number 1.6  
 Revision Date 08/22/2004

Page 1 of 7  
 Print Date 8/25/2004

**1. PRODUCT AND COMPANY IDENTIFICATION**

**EXCEL POLYMERS LLC**  
 14330 Kinsman Road, Burton, OH 44021

Telephone : Product Stewardship (440) 834-4644  
 Emergency telephone number : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).  
 Product name : POLYBOUND 368 ZMBT-80 BROWN  
 Product code : AD00000421  
 Chemical Name : Mixture  
 CAS-No. : Mixture  
 Product Use : Industrial Applications

**2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS**

Components	CAS-No.	Weight %
Zinc di(benzothiazol-2-yl) disulphide	155-04-4	60 - 100
Silica, amorphous	7631-86-9	1 - 5
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	5 - 10
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	10 - 30

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

**POTENTIAL HEALTH EFFECTS**

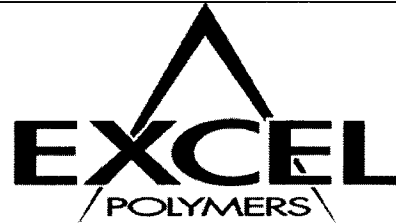
**Routes of Exposure:** : Inhalation, Ingestion, Skin contact

**Acute exposure**

Inhalation : Resin particles, like other inert materials, can be mechanically irritating.  
 Ingestion : May be harmful if swallowed.  
 Eyes : Resin particles, like other inert materials, are mechanically irritating to eyes.  
 Skin : Experience shows no unusual dermatitis hazard from routine handling.

**EXCEL POLYMERS LLC**

**MATERIAL SAFETY DATA SHEET**



**POLYBOUND 368 ZMBT-80 BROWN**

Version Number 1.6  
Revision Date 08/22/2004

Page 2 of 7  
Print Date 8/25/2004

**Chronic exposure** : Refer to Section 11 for Toxicological Information.

**Medical Conditions** : None known.

**Aggravated by Exposure:**

**4. FIRST AID MEASURES**

**Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.

**Eyes** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

**Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

**5. FIRE-FIGHTING MEASURES**

**Flash point** : Not applicable

**Flammable Limits**

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

**Autoignition temperature** : Not relevant

**Suitable extinguishing media** : water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

**Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

**Unusual Fire/Explosion Hazards** : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), other hazardous materials, and smoke are all possible.

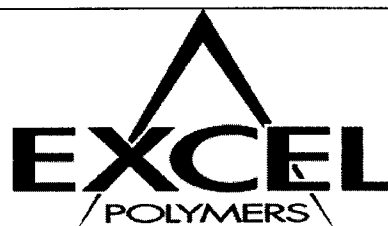
**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

**Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

**Methods for cleaning up** : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.



**EXCEL POLYMERS LLC****MATERIAL SAFETY DATA SHEET****POLYBOUND 368 ZMBT-80 BROWN**Version Number 1.6  
Revision Date 08/22/2004Page 4 of 7  
Print Date 8/25/2004

Color	: NOT APPLICABLE	Bulk density	: Not established
Odor	: Characteristic rubber odor	Vapor pressure	: Not applicable
Melting point/range	: Not determined	Vapour density	: Not applicable
Boiling Point:	: Not applicable	pH	: Not applicable
Water solubility	: Insoluble		

**10. STABILITY AND REACTIVITY**

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), other hazardous materials, and smoke are all possible.

**11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
155-04-4	Zinc di(benzothiazol-2-yl) disulphide	sensitizer	Skin.
7631-86-9	Silica, amorphous	Irritant	Eyes, Respiratory system.
64742-53-6	Petroleum distillates, hydrotreated light naphthenic	Irritant	Eyes, Skin.
64742-52-5	Petroleum distillates, hydrotreated heavy naphthenic	Irritant	Eyes, Skin.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

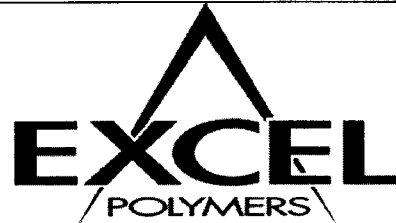
CAS-No.	Chemical Name	Route	Value	Species
155-04-4	Zinc di(benzothiazol-2-yl) disulphide	Oral LD50	540 mg/kg	rat

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : Not readily biodegradable.

**EXCEL POLYMERS LLC**

**MATERIAL SAFETY DATA SHEET**



**POLYBOUND 368 ZMBT-80 BROWN**

Version Number 1.6  
Revision Date 08/22/2004

Page 5 of 7  
Print Date 8/25/2004

Environmental Toxicity : Chemicals are not readily available as they are bound within the polymer matrix.

Bioaccumulation Potential : Chemicals are not readily available as they are bound within the polymer matrix.

Additional advice : Not applicable

**13. DISPOSAL CONSIDERATIONS**

Product : Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

**14. TRANSPORT INFORMATION**

U.S. DOT Classification : Refer to specific regulation.

ICAO/IATA (air) : Refer to specific regulation.

IMO / IMDG (maritime) : Refer to specific regulation.

**15. REGULATORY INFORMATION**

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

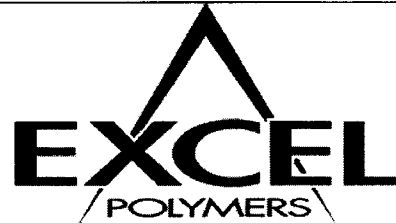
US. EPA CERCLA Hazardous Substances (40 CFR 302)

Not applicable

California Proposition 65 : This product does not contain a substance listed by California Prop 65.

**EXCEL POLYMERS LLC**

**MATERIAL SAFETY DATA SHEET**



**POLYBOUND 368 ZMBT-80 BROWN**

Version Number 1.6  
Revision Date 08/22/2004

Page 6 of 7  
Print Date 8/25/2004

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ZINC COMPOUNDS	155-04-4	79.20

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Zinc di(benzothiazol-2-yl) disulphide	155-04-4	79.20	241
Zinc di(benzothiazol-2-yl) disulphide	155-04-4	80.00	241

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

CAS-No.
7631-86-9

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

- Australia AICS : Not determined
- China IECS : Not determined
- Europe EINECS : Not determined
- Japan ENCS : Not determined
- Korea KECI : Not determined
- Philippines PICCS : Not determined

**16. OTHER INFORMATION**

**EXCEL POLYMERS LLC**

**MATERIAL SAFETY DATA SHEET**



**POLYBOUND 368 ZMBT-80 BROWN**

Version Number 1.6  
Revision Date 08/22/2004

Page 7 of 7  
Print Date 8/25/2004

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.