



DERBIGUM®

MAKING BUILDINGS SMART

Material Safety Data Sheet

Product: *DERBIGUM BG Inhibitor*

MSDS Date: 6-30-10
Product Name: DERBIGUM BG Inhibitor
Manufacturer: DERBIGUM Americas, Inc.

I. Product and Company Description

DERBIGUM Americas, Inc.
4821 Chelsea Ave.
Kansas City, MO 64130

Emergency Phone Number:
(800) 424-9300 CHEMTREC

For Product Information:
(800) 541-5455

Product Description:
Additional component/Sealing

II. Chemical Composition

| Component | CAS# | %Composition |
|----------------------------|----------|--------------|
| Styrene | 100-42-5 | 25-50 |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | 2.5-10 |
| Triphenyl phosphite | 101-02-0 | <0.5 |

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Light yellow liquid with characteristic odor

B. Potential Health Effects:

Acute Eye:
May cause irritation.

Acute Skin:
May cause irritation.

Acute Inhalation:
May cause irritation to the respiratory tract.

Acute ingestion:
May cause gastrointestinal damage if swallowed.



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Chronic effects:

This material has been identified as a possible human carcinogen by IARC (styrene).

IV. First Aid Measures

First Aid Measures for Accidental Exposure:

Eye Exposure:

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Remove contact lenses after flushing.

Skin Exposure:

Wash affected area with soap and water. Get medical attention if irritation develops or persists.

Inhalation:

Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Ingestion:

Give large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: 32°C (90°F)

Method Used: N/A

Ignition Temperature: 480.0°C (896°F)

Flammability Limits (vol/vol%): Lower: 1.2 Upper: 8.9

Extinguishing Media:

Water fog, foam, or CO₂

Special Fire Fighting Procedures:

Ensure that extinguishing agent does not enter waterways after fire.

Unusual Fire and Explosion Hazards:

Product does not present an explosion hazard. However, formation of explosive air/vapor mixtures is possible.

Hazardous Decomposition Materials (Under Fire Conditions):

Combustion produces carbon monoxide, carbon dioxide, carbon and water. Other trace gases that may be released include alcohols, aldehydes, ketones, carbon acids, aromatics and hydrocarbons.



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VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Wearing proper personal protective equipment (Section VIII), stop the leak, if possible. Keep unauthorized persons away from spill area. Shut off or remove all ignition sources. Construct a dike to prevent spill from entering sewers, soil or waterways. Once contained, spread absorbent material over area.

Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling:

Use with adequate ventilation.

Storage:

Store in a well-ventilated, cool, dry place. Keep containers closed. Avoid excessive heat and ignition sources.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

| Component | Exposure limits | | |
|----------------------------|--------------------------|---|---------------------|
| | ACGIH | NIOSH | OSHA-PELs |
| Styrene | TWA 20 ppm; STEL 40 ppm | 50 ppm (215 mg/m ³) TWA, 100 ppm (425 mg/m ³) STEL | 8 hour TWA: 100 ppm |
| 2,6-di-tert-butyl-p-cresol | TWA 10 mg/m ³ | TWA 10 mg/m ³ | ND |
| Triphenyl phosphite | ND | ND | ND |

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection:

Chemical resistant gloves recommended, such as neoprene or nitrile rubber. Body covering clothing should be utilized

IX. Physical and Chemical Properties

Physical Appearance: Light yellow liquid



Product: *DERBIGUM BG Inhibitor*

| | |
|-----------------------------|-------------------------|
| Odor: | Characteristic |
| pH: | ND |
| Specific Gravity: | ND |
| Water Solubility: | Not miscible |
| Melting Point Range: | ND |
| Boiling Point Range: | 145°C (293°F) |
| Vapor Pressure: | 6.0 hPa |
| Density: | 1.063 g/cm ³ |

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

None

Materials / Chemicals to be Avoided:

None

Hazardous Decomposition Products:

None

Hazardous Polymerization:

Should not occur

XI. Toxicological Information

Acute Oral Toxicity:

For Styrene: LD50: 5000 mg/kg (rat)

Acute Dermal Toxicity:

None

Acute Inhalation Toxicity:

For Styrene: LC50: 11.8 mg/l (rat, 4h)

Chronic Toxicity:

This material has been identified as a possible human carcinogen by IARC (styrene).

XII. Ecological Information

Ecotoxicological Information:

| | |
|----------------|--|
| Degradation: | Not Determined |
| Accumulation: | Not Determined |
| Fish-Toxicity: | For Styrene: EC0 72 mg/l (Bacteria) EC50 - OECD202 182 mg/l (daphnia) LC50 - OECD203 25 mg/l (Lepomus Macrochirus) 23 mg/l (daphnia) |



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Chemical Fate Information:

Not Determined

XIII. Disposal Considerations

Waste Disposal Method:

Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal:

Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information

US Department of Transportation Shipping Name:

| | | |
|---------------------------------|----------------------|----------------------------------|
| US Department of Transportation | Proper Shipping Name | Resin Solution, Flammable Liquid |
| | Hazard Class | 3 |
| | ID Number | UN1866 |
| | Packaging Group | III |

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

Fire Hazard: YES
 Reactive Hazard: NO
 Release of Pressure: NO
 Acute Health Hazard: YES
 Chronic Health Hazard: YES

SARA Section References:

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

This substance is listed under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (also referred to as the Toxics Release Inventory (TRI)).

Listed Name(s): styrene

Toxic Substances Control Act (TSCA): All components are included in the inventory or are not required to be listed.

Other Regulations:

State:

The components identified with an X are present on the respective state's Right To Know lists:



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| Component | MA | PA | MI | NJ |
|----------------------------|----|----|----|----|
| Styrene | X | X | X | X |
| 2,6-di-tert-butyl-p-cresol | X | X | | X |
| Triphenyl phosphite | | | | |

California Prop. 65: None of the chemicals in this product are listed.

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard: 2
Flammability: 3
Reactivity: 0

Key Legend Information:

N/A – Not Applicable
ND – Not Determined
ACGIH – American Conference of
Governmental Industrial Hygienists
OSHA – Occupational Safety and Health
Administration

TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on
Cancer

The information contained herein is based on the data available to us and is believed to be correct. However DERBIGUM Americas, Inc. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.