



**DERBIGUM®**  
MAKING BUILDINGS SMART

## Material Safety Data Sheet

**Product:** *DERBIGUM KDT Surface*

**MSDS Date:** 6-30-10  
**Product Name:** DERBIGUM KDT Surface  
**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:**  
Coating

### II. Chemical Composition

Component	CAS#	%Composition
2-methoxy-1-methylethyl acetate	108-65-6	10-25
1,6-Hexandiyl-bis-carbamidsäure-bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl]- ester	ND	10-25
Solvent naphtha (petroleum), medium aliph.	64742-88-7	2.5-10
Solvent naphtha (petroleum), light arom.	64742-95-6	0.5-2.5
3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate	4098-71-9	<0.5
1,2,4-trimethylbenzene	95-63-6	<0.5
1,2,2,6,6-Pentamethyl-Piperidin-Derivat	ND	<0.5
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	ND	<0.5

### III. Hazards Identification

#### A. Emergency Overview:

**Physical Appearance and Odor:**  
Clear liquid with ester-like odor

#### B. Potential Health Effects:

**Acute Eye:**  
May cause irritation.



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**Acute Skin:**

May cause irritation.

**Acute Inhalation:**

May cause irritation to the respiratory tract.

**Acute ingestion:**

May cause gastrointestinal damage if swallowed.

**Chronic effects:**

ND

### 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.

### V. Fire Fighting Measures

#### Fire Hazard Data:

**Flash Point:** 44°C (111°F)

**Method Used:** N/A

**Ignition Temperature:** 315°C (599°F)

**Flammability Limits (vol/vol%):**

**Lower:** 1.5

**Upper:** 10.8

**Extinguishing Media:**

Water fog, foam, or CO<sub>2</sub>

**Special Fire Fighting Procedures:**

Ensure that extinguishing agent does not enter waterways after fire.

**Unusual Fire and Explosion Hazards:**

Product is not explosive. However, formation of explosive air/ vapor mixtures is possible.



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**Hazardous Decomposition Materials (Under Fire Conditions):**

Combustion produces carbon monoxide, carbon dioxide, carbon, water, hydrocyanides, ammonia, and nitrogen. Other trace gases that may be released include amine, isocyanates, urea, hydrocarbons, alcohols and aldehydes.

**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
2-methoxy-1-methylethyl acetate	ND	ND	ND
1,6-Hexandiyl-bis-carbamidsäure-bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl]- ester	ND	ND	ND
Solvent naphtha (petroleum), medium aliph.	ND	ND	ND
Solvent naphtha (petroleum), light arom.	ND	ND	ND
3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate	TWA (0.005 ppm)	ND	REL: 0.005 ppm (0.045 mg/m3) TWA (skin), 0.02 ppm (0.18 mg/m3) STEL (skin)
1,2,4-trimethylbenzene	ND	ND	ND
1,2,2,6,6-Pentamethyl-Piperidin-Derivat	ND	ND	ND
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	ND	ND	ND

**Engineering Controls:**

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



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**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

<b>Physical Appearance:</b>	Clear liquid
<b>Odor:</b>	Ester-like
<b>pH:</b>	ND
<b>Specific Gravity:</b>	ND
<b>Water Solubility:</b>	Not miscible
<b>Melting Point Range:</b>	ND
<b>Boiling Point Range:</b>	146°C (295°F)
<b>Vapor Pressure:</b>	3.4 hPa
<b>Density:</b>	1.050 g/cm <sup>3</sup>

### 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 Naptha: LD50: 2000 mg/kg (rat)

**Acute Dermal Toxicity:**

For Naptha: LD50: 2000 mg/kg (rat)



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**Acute Inhalation Toxicity:**

For Naptha: LC50/4h: 5 mg/l (rat)

**Chronic Toxicity:**

ND

### XII. Ecological Information

**Ecotoxicological Information:**

Degradation: Not Determined

Accumulation: Not Determined

Fish-Toxicity: Not Determined

**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
	Hazard Class	3
	ID Number	UN 1866
	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: NO

Chronic Health Hazard: NO

**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.



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**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): 1,2,4-Trimethylbenzene.

**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:

Component	MA	PA	MI	NJ
2-methoxy-1-methylethyl acetate				
1,6-Hexandiyl-bis-carbaminsäure-bis[2-[2-(1-ethylpentyl)-3-oxazolidinyl]ethyl]- ester				
Solvent naphtha (petroleum), medium aliph.				
Solvent naphtha (petroleum), light arom.				
3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate	X	X		X
1,2,4-trimethylbenzene	X	X		X
1,2,2,6,6-Pentamethyl-Piperidin-Derivat				
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)				

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: 2  
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.**