



DERBIGUM®
MAKING BUILDINGS SMART

Material Safety Data Sheet

Product: DERBIGUM SD Resin Component A
(DERBIGUM SD Resin System Component A)

MSDS Date: 6-30-10
Product Name: DERBIGUM SD Resin Component A
(DERBIGUM SD Resin System Component A)
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:
Sealing

II. Chemical Composition

Component	CAS#	%Composition
2-Ethylhexyl acrylate	103-11-7	25-50
Methyl methacrylate	80-62-6	25-50
2-(2-Butoxyethoxy)ethyl methacrylate	7328-22-5	2.5-10
Benzenamine, N,N,4-trimethyl-	99-97-8	<0.5
2-Propanol, 1,1'-[(4-methylphenyl)imino]bis-	38668-48-3	<0.5
Stoddard solvent	8052-41-3	<0.5

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Variable colored fluid with characteristic odor.

B. Potential Health Effects:

Acute Eye:
This product may cause eye irritation.

Acute Skin:
This product may cause skin irritation.



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Acute Inhalation:

May cause nose and throat irritation.

Acute ingestion:

This product may be harmful or fatal if swallowed.

Chronic effects:

Not Determined

IV. First Aid Measures

First Aid Measures for Accidental Exposure:

Eye Exposure:

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

Skin Exposure:

Remove product with cloth or paper towel. Wash affected area with soap and water. If irritation persists, get medical attention. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse.

Inhalation:

Remove to fresh air. Seek medical attention if symptoms develop or persist.

Ingestion:

If the material is swallowed, get immediate medical attention or advice – DO NOT INDUCE VOMITING.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: 10°C (50°F)

Ignition Temperature: 245°C (473°F)

Flammability Limits (vol/vol%): Lower: 0.8 Upper: 12.5

Extinguishing Media:

Carbon dioxide, and foam. Fight larger fires with alcohol-resistant foam.

Special Fire Fighting Procedures:

Wear self-contained respiratory protective device.

Unusual Fire and Explosion Hazards:

None



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Hazardous Decomposition Materials (Under Fire Conditions):
Oxides of carbon, Methyl Methacrylate, Ester, Alcohol and Hydrocarbon

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and avoid release to sewers and water bodies. Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling:

Protect against electrostatic charges. Containers should be bonded and grounded.

Storage:

Store only in the original container and away from ignition sources. Store tightly closed in an upright position in a cool, dry, well-ventilated area.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
2-Ethylhexyl acrylate	ND	ND	ND
Methyl methacrylate	50 ppm TWA 100 ppm STEL	100 ppm TWA; 410 mg/m ³ TWA	100 ppm TWA; 410 mg/m ³ TWA
2-(2-Butoxyethoxy)ethyl methacrylate	ND	ND	ND
Benzenamine, N,N,4-trimethyl-	ND	ND	ND
2-Propanol, 1,1'-[(4-methylphenyl)imino]bis-	ND	ND	ND
Stoddard solvent	100 ppm TWA	350 mg/m ³ TWA 1800 mg/m ³ Ceiling (15 min)	100 ppm TWA; 525 mg/m ³ TWA

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.



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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:	Variable colored liquid
Odor:	Characteristic
pH:	ND
Specific Gravity:	1.04 g/cm ³
Water Solubility:	Not miscible or difficult to mix
Melting Point Range:	ND
Boiling Point:	101°C (214°F)
Vapor Pressure:	47 hPa (35 mm Hg)
Vapor Density:	ND
%Volatile by volume:	ND
Evaporation Rate:	ND
Viscosity:	2270 mPas

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:

Oxides of carbon, Methyl Methacrylate, Ester, Alcohol and Hydrocarbon

Hazardous Polymerization:

Should not occur.

XI. Toxicological Information

Acute Toxicity:

2-Ethylhexyl acrylate (103-11-7)

Oral LD50 Rat: 4435 mg/kg; Dermal LD50 Rabbit:7522 mg/kg

Methyl methacrylate (80-62-6)

Inhalation LC50 Rat: 4632 ppm/4H; Inhalation LC50 Rat:400 ppm/1H; Oral LD50 Rat:7872 mg/kg; Dermal LD50 Rabbit:>5 g/kg

Benzenamine, N,N,4-trimethyl- (99-97-8)



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Inhalation LC50 Rat: 1400 mg/m³/4H; Oral LD50 Rat: 1650 mg/kg

Chronic Toxicity:

Component Carcinogenicity

2-Ethylhexyl acrylate (103-11-7)

IARC: Monograph 60 [1994] (Group 3 (not classifiable))

Methyl methacrylate (80-62-6)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 60 [1994], Supplement 7 [1987] (Group 3 (not classifiable))

XII. Ecological Information

Ecotoxicological Information:

2-Ethylhexyl acrylate (103-11-7)

Test & Species

	Conditions
48 Hr LC50 Leuciscus idus melanotus	23 mg/L
72 Hr EC50 Scenedesmus subspicatus	44 mg/L
96 Hr EC50 Scenedesmus subspicatus	47 mg/L
48 Hr EC50 Daphnia magna	17.45 mg/L

Methyl methacrylate (80-62-6)

Test & Species

	Conditions
96 Hr LC50 Pimephales promelas	243-275 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	125.5-190.7 mg/L [static]
96 Hr LC50 Lepomis macrochirus	170-206 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	153.9-341.8 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	>79 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	>79 mg/L [static]
96 Hr LC50 Poecilia reticulata	326.4-426.9 mg/L [static]
96 Hr EC50 Selenastrum capricornutum, Skeletonema costatum	1.0 mg/L
48 Hr EC50 water flea	10 mg/L
48 Hr EC50 Daphnia magna	69 mg/L

Benzenamine, N,N,4-trimethyl- (99-97-8)

Test & Species

	Conditions
96 Hr LC50 Pimephales promelas	42-50.5 mg/L [flow-through]

Chemical Fate Information:

Not Determined



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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	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER,STABILIZED)
	Hazard Class	3
	ID Number	UN 1993
	Packaging Group	III

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

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

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

Other Regulations:

State:

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
2-Ethylhexyl acrylate	103-11-7	No	Yes	No	Yes	Yes	Yes
Methyl methacrylate	80-62-6	Yes	Yes	Yes	Yes	Yes	Yes
Stoddard solvent	8052-41-3	Yes	Yes	Yes	Yes	Yes	Yes

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



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XVI. Other Information

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

Health Hazard:	1
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.