

**SAFETY DATA SHEET**  
DERBIFLASH RS 289 TEXTURED BASE



**SECTION 1 IDENTIFICATION**

**Product Name** Derbiflash RS 289 Textured Base  
**Recommended Use** Aggregated PMMA finish resin  
**Restrictions** For Professional use only  
**Manufacturer** DERBIGUM Americas, Inc  
**Address** 4821 Chelsea Avenue  
Kansas City, MO 64130  
**Phone Number** (800) 727-9872  
**Emergency Number** (800) 424-9300 (CHEMTREC)

**SECTION 2 HAZARDS**

**GHS Classification** Flammable Liquid: Category 2  
Skin Irritation: Category 2  
Skin Sensitization: Category 1  
STOT: Single Exposure: Respiratory Tract Irritation; Category 3

**Hazard Pictographs**



**Signal Word**

**DANGER**

**Hazard Statements**

H225 - Highly flammable liquid and vapor  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H335 - May cause respiratory irritation

**Precautionary Statements**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from open flames - NO SMOKING  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting/... equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release into the environment  
P280 - Wear gloves/protective clothing/eye protection/face protection

**Response**

P301 + P312 + P330 If swallowed: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340+312 If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

ABBREVIATION KEY



**SECTION 2 HAZARDS**

**Response** P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), foam, dry extinguishing powder to extinguish

**Storage** P403+P235 - Store in well-ventilated place. Keep cool  
 P405 - Store locked up.

**Disposal** P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

**SECTION 3 COMPOSITION**

**Chemical Composition**

| COMPONENT                 | CAS NUMBER | PERCENT BY WEIGHT |
|---------------------------|------------|-------------------|
| Crystalline Silica*       | 14808-60-7 | 45 - 80           |
| 2-Ethylhexyl acrylate     | 103-11-7   | 10 - 30           |
| Methyl methacrylate       | 80-62-6    | 1 - 10            |
| Diisopropanol-P-toluidine | 38668-48-3 | < 1               |

**Note:** The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

\* Component is not likely to occur above the limits of exposure considering its incorporated into the mixture and/or provided use.

**SECTION 4 FIRST AID MEASURES**

**Eyes** If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.

**Skin** Wash with plenty of soap and water. Remove all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.

**Inhalation** Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.

**First-Aid, Ingestion** Immediately call a poison center. Do NOT induce vomiting. Rinse mouth.

**Symptoms, Acute & Delayed Immediate Medical Attention** *Refer to Section 11 - Toxicological Information*  
 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

**SECTION 5 FIRE FIGHTING MEASURES**

|  |   |
|--|---|
| <b>Fire Hazard</b>                       | Highly flammable liquid and vapor   |
| <b>Flash Point</b>                       | <b>73.4°F</b> (MMA Closed Cup) <b>LEL: N/A UEL: N/A</b>   |
| <b>Hazardous Products of Combustions</b> | CO, CO <sub>2</sub> , Nitrogen oxides, hydrocarbons, black smoke and methacrylic acid fumes.  |
| <b>Extinguishing Media</b>               | Universal foam, dry chemical powder, CO <sub>2</sub> or sand  |
| <b>Firefighting instruction</b>          | Do not use a heavy water stream. Use of heavy stream of water may spread fire. Use standard procedure for chemical fires. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be collected and disposed of in accordance with local regulations. |
| <b>Explosion Hazard</b>                  | May form flammable/explosive vapor-air mixture.   |
| <b>Protection Gear</b>                   | Do not enter fire area without proper equipment, including respiratory protection.  |

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

|  |  |
|--|--|
| <b>Personal Precautions</b>                                | Wear appropriate protective clothing to avoid eye and skin contact. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.   |
| <b>Environmental Precautions</b>                           | Avoid release into the environment. Report releases as required by local, state and federal authorities.   |
| <b>Method and Materials for Containment &amp; Clean Up</b> | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Shut off all sources of ignition. Keep people away. Eliminate sources of ignition. Minimize skin contact and avoid breathing vapors. Ventilate confined spaces. Keep product out of sewers and waterways by diking or impounding. Dispose of in an approved facility, <i>see Section 13, Disposal Considerations.</i> |

**SECTION 7 HANDLING AND STORAGE**

|                 |   |
|-----------------|---|
| <b>Handling</b> | Use this product with adequate ventilation. Material is <b>COMBUSTIBLE</b> . Material requires electrical grounding during material transfer process to prevent fire or explosion risk from static accumulation and discharge. All electrical equipment in storage and handling areas should be installed per NFPA requirements. Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. <i>Use personal protective equipment as described in Section 8.</i> |
| <b>Storage</b>  | Store in a dry, cool and well-ventilated place and away from sources of ignition. Keep containers tightly closed when not in use. <b>DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS.</b> Keep only in original container.   |

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Occupational Exposure Limits**

| COMPONENT           | CAS NUMBER | OSHA PEL                                  | ACGIH TLV   | NIOSH   |
|---------------------|------------|---|---|---|
| Methyl methacrylate | 80-62-6    | 410 mg/m <sup>3</sup> TWA                 | 205 mg/m <sup>3</sup> TWA<br>410 mg/m <sup>3</sup> (STEL) | 410 mg/m <sup>3</sup> TWA                       |
| Crystalline Silica  | 14808-60-7 | 0.1 mg/m <sup>3</sup> TWA<br>(Respirable) | 0.025 mg/m <sup>3</sup> TWA<br>(Respirable fraction)      | 0.05 mg/m <sup>3</sup> TWA<br>(Respirable dust) |

**Engineering Measures/  
Controls**

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**General Industrial Hygiene**

Use good industrial hygiene practices in handling this material.

**Environmental Exposure  
Controls**

Follow best practice for site management and disposal of waste.

**PERSONAL PROTECTIVE EQUIPMENT**

**Pictographs**



**Eyes/Face**

**Safety glasses with side shields**

Follow the national guidelines concerning the use of protective eye wear.

**Hand**

**Protective Gloves**

Leather or cotton gloves may be worn to prevent skin contact and irritation.

**Skin/Body**

Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

**Inhalation**

Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                         |
|----------------------------------|-------------------------|
| <b>Physical State</b>            | Liquid                  |
| <b>Appearance</b>                | Clear                   |
| <b>Odor</b>                      | Strong, solvent-like    |
| <b>Odor Threshold</b>            | No data available       |
| <b>pH</b>                        | No data available       |
| <b>Relative Evaporation Rate</b> | No data available       |
| <b>Boiling Point</b>             | 213.8°F (101°C)         |
| <b>Freezing Point</b>            | No data available       |
| <b>Flash Point</b>               | 73.4°F (23°C)           |
| <b>Auto-ignition Temperature</b> | No data available       |
| <b>Decomposition Temperature</b> | No data available       |
| <b>Flammability (solid, gas)</b> | No data available       |
| <b>Vapor Density</b>             | Heavier than air        |
| <b>Specific Gravity</b>          | No data available       |
| <b>Density</b>                   | ≈ 1.8 g/cm <sup>3</sup> |
| <b>Solubility in Water</b>       | Insoluble               |
| <b>Viscosity</b>                 | ≈ 4300 mPa.s            |
| <b>VOC</b>                       | < 5 g/l                 |

ABBREVIATION KEY

OSHA = Occupational Safety & Health Administration  
 NIOSH = National Institute for Occupational Safety  
 ACGIH = American Conference of Governmental Industrial Hygiene  
 MSHA = Mine Safety and Health Administration

PEL = Permissible Exposure Level  
 TLV = Threshold Limit Value  
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures



**SECTION 10 STABILITY AND REACTIVITY**

|                                 |  |
|---------------------------------|--|
| <b>Stability</b>                | Material is stable under advised storage and handling conditions   |
| <b>Reactivity</b>               | Avoid excessive heat   |
| <b>Incompatibility</b>          | Strong acids, strong oxidizing agents, strong bases, reducing agents and halogenated compounds   |
| <b>Conditions to Avoid</b>      | Open flames, sparks, electrostatic discharge, heat and other ignition sources; prolonged exposure to direct direct sunlight.             |
| <b>Hazardous Polymerization</b> | Storage temperatures over 140°F can produce uncontrolled and exothermic polymerization   |
| <b>Hazardous Decomposition</b>  | During a fire, irritating/toxic gases such as: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbon by-products and black smoke |

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Component Analysis**

| COMPONENT                 | CAS NUMBER | ORAL LD50 (mg/kg) | DERMAL LD50 (mg/kg) | INHALATION LC50 (mg/L) |
|---------------------------|------------|-------------------|---------------------|------------------------|
| Methyl methacrylate       | 80-62-6    | >7,872 (rat)      | >5,000 (rabbit)     | 29.8/4hr (rat)         |
| 2-Ethylhexyl acrylate     | 103-11-7   | >4,435 (rat)      | >7,522 (rabbit)     | N/A                    |
| Diisopropanol-P-toluidine | 38668-48-3 | >100 (rat)        | N/A                 | N/A                    |

**POTENTIAL HEALTH EFFECTS**

|                                  |  |
|----------------------------------|--|
| <b>Eyes</b>                      |  |
| <b>Acute (Immediate)</b>         | Conjunctivitis, irritation, tearing and burning  |
| <b>Chronic (Delayed)</b>         | Causes eye irritation.   |
| <b>Skin</b>                      |  |
| <b>Acute (Immediate)</b>         | Irritation and inflammation. Allergic skin reaction may occur. Dermatitis  |
| <b>Chronic (Delayed)</b>         | Causes skin irritation   |
| <b>Inhalation</b>                |  |
| <b>Acute (Immediate)</b>         | May cause respiratory irritation. May cause drowsiness or dizziness.   |
| <b>Chronic (Delayed)</b>         | Prolonged inhalation may be harmful  |
| <b>Ingestion</b>                 |  |
| <b>Acute (Immediate)</b>         | Swallowing a small quantity of this material will result in serious health hazard  |
| <b>Chronic (Delayed)</b>         | No data available  |
| <b>Component Carcinogenicity</b> | Methyl methacrylate (80-62-6)<br>IARC: Group 3 - Not classifiable as to its carcinogenicity to humans<br>2-Ethylhexyl acrylate (103-11-7)<br>IARC: Group 2B - Possibly carcinogenic to humans<br>Crystalline silica (14808-60-7)<br>IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997])<br>ACGIH: A2 - Suspected Human Carcinogen<br>NTP: Known Human Carcinogen |
| <b>Carcinogenic Effects</b>      | This product contains crystalline silica which is listed by IARC as a suspect carcinogen but concentrations above the limits of exposure are not likely to occur due to the components incorporation into the mixture/provided use.  |

ABBREVIATION KEY

LD50 = Lethal dose, 50 percent  
 IARC = International Agency for Research on Cancer  
 ACGIH = American Conference of Governmental Industrial Hygiene

LC50 = Lethal concentration, 50 Percent  
 NTP = National Toxicology Program



**SECTION 11 TOXICOLOGICAL INFORMATION**

**Reproductive Toxicity** Based on available data, the classification criteria are not met  
**Teratogenicity** Based on available data, the classification criteria are not met  
**Mutagenicity** Based on available data, the classification criteria are not met  
**Aspiration Hazard** Not classified  
**STOT Single Exposure** STOT RE Hazard Category 3  
**STOT Repeated Exposure** Based on available data, the classification criteria are not met.

**SECTION 12 ECOLOGICAL INFORMATION**

**Eco toxicity**

| COMPONENT                 | CAS NUMBER | FISH LC50 (mg/L)                    | DAPHNA EC50 (mg/L)             | ALGAE EC50 (mg/L)             |
|---------------------------|------------|-------------------------------------|--------------------------------|-------------------------------|
| Methyl methacrylate       | 80-62-6    | >191 (Bluegill sunfish)<br>96 Hours | >69 (Water flea)<br>48 Hours   | >110 (algae)<br>72 hours      |
| 2-Ethylhexyl acrylate     | 103-11-7   | >100 (Rainbow trout)<br>96 Hours    | >17 (Water flea)<br>48 Hours   | >44 (green algae)<br>72 Hours |
| Diisopropanol-P-toluidine | 38668-48-3 | N/A                                 | >28.8 (Water flea)<br>48 Hours | >84 (green algae)<br>72 Hours |

**Persistence & Degradability** **Methyl methacrylate** (80-62-6) Result: Readily biodegradable;  
 Biodegradation: >95 % Exposure time: 15 days  
**2-ethylhexyl acrylate** (103-11-7) Result: Readily biodegradable;  
 Biodegradation: 75 % Exposure time: 15 days

**Bioaccumulative potential** No Data Available

**Soil Absorption/Mobility** No Data Available

**General Notes** Avoid release to the environment

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of in a manner consistent with federal, state and local regulations. This includes pails containing uncured material. Pails with cured/hardened remains of product can be sent for recycling.

**Recommendation** Product mixed with hardener and fully cured is ecologically save and can be disposed to local refuse deposit or recycling facility.

**SECTION 14 TRANSPORT INFORMATION**

**Classification (TDG & DOT)** 3 Flammable liquids  
**Identification Number** UN1263  
**Shipping name** Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base  
**Packaging group** II

ABBREVIATION KEY

LC50 = Lethal concentration, 50 Percent  
 lofP<sub>ow</sub> = octanol-water partition coefficient  
 DOT = Department of Transportation  
 STOT = Specific Target Organ Toxicity

EC50 = Effective concentration, 50 Percent  
 RCRA = Resource Conservation and Recovery Act  
 TGA = Therapeutic Goods Administration



**SECTION 15 REGULATORY INFORMATION**

**TSCA Inventory** Components are listed  
**DSL Inventory** Components are listed  
**CERCLA** Under requirements of the Comprehensive Environmental Response, Compensation, and Liability Act, methyl methacrylate (80-62-6) has a Reportable Quantity of 1,000 lbs. Any spill or release above this RQ must reported to the National Response Center (800-424-8802).  
**Sara 311/312 Categories** Fire Hazard; Acute health Hazard  
**Sara 313** methyl methacrylate (80-62-6) 10-30%  
**Clean Air Act** methyl methacrylate (80-62-6) 10-30%  
**CA Proposition 65** **Silica, crystalline** (14808-60-7)  
**WARNING:** This product contains a chemicals known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Right to Know States**

| COMPONENT                 | CAS NUMBER | CA  | MA  | MN  | NJ  | PA  | RI  |
|---------------------------|------------|-----|-----|-----|-----|-----|-----|
| Methyl methacrylate       | 80-62-6    | No  | Yes | No  | Yes | Yes | Yes |
| 2-Ethylhexyl acrylate     | 103-11-7   | No  | No  | No  | Yes | Yes | Yes |
| Diisopropanol-P-toluidine | 38668-48-3 | No  | No  | No  | No  | No  | No  |
| Crystalline Silica        | 14808-60-7 | Yes | Yes | Yes | Yes | Yes | Yes |

**SECTION 16 OTHER INFORMATION**

**Preparation Date** April 2020  
**Summary of Changes** New product  
**Disclaimer** The information and recommendations contained herein are to the best of DERBIGUM Americas' knowledge and belief, accurate and reliable as of the date issued. DERBIGUM Americas does not warrant or guarantee their accuracy or reliability, and DERBIGUM Americas shall not be liable for any loss or damage arising out of the use thereof.

ABBREVIATION KEY

TSCA = Toxic Substances Control Act  
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act,

DSL = Domestic Substances List (Canada)  
 SARA = Superfund Amendments and Reauthorization Act