

SECTION 1 IDENTIFICATION

Product Name Derbiflash RS 210
Recommended Use Base resin for Derbiflash RS 233 SL Mortar
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.



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 (CO2), 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
Methyl methacrylate	80-62-6	25 - 50
2-Ethylhexyl acrylate	103-11-7	10 - 20

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.

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 *Refer to Section 11 - Toxicological Information*

Immediate Medical Attention 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

Fire Hazard	Highly flammable liquid and vapor
Flash Point	73.4°F (MMA Closed Cup)
Hazardous Products of Combustions	CO, CO ₂ , Nitrogen oxides, hydrocarbons, black smoke and methacrylic acid fumes.
Extinguishing Media	Universal foam, dry chemical powder, CO ₂ or sand
Firefighting instruction	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.
Explosion Hazard	May form flammable/explosive vapor-air mixture.
Protection Gear	Do not enter fire area without proper equipment, including respiratory protection.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
Environmental Precautions	Avoid release into the environment. Report releases as required by local, state and federal authorities.
Method and Materials for Containment & Clean Up	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, see Section 13, Disposal Considerations.

SECTION 7 HANDLING AND STORAGE

Handling	Use this product with adequate ventilation. Material is COMBUSTIBLE . 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. Use personal protective equipment as described in Section 8.
Storage	Store in a dry, cool and well-ventilated place and away from sources of ignition. Keep containers tightly closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS. 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 ³ TWA	205 mg/m ³ TWA 410 mg/m ³ (STEL)	410 mg/m ³ TWA

**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

Physical State	Liquid
Appearance	Grey
Odor	Strong, solvent-like
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	213.8°F (101°C)
Freezing Point	No data available
Flash Point	73.4°F (23°C)
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor Density	Heavier than air
Specific Gravity	No data available
Density	≈ 1 g/cm ³
Solubility in Water	Insoluble
Viscosity	No data available
VOC	< 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

Stability	Material is stable under advised storage and handling conditions
Reactivity	Avoid excessive heat
Incompatibility	Strong acids, strong oxidizing agents, strong bases, reducing agents and halogenated compounds
Conditions to Avoid	Open flames, sparks, electrostatic discharge, heat and other ignition sources; prolonged exposure to direct direct sunlight.
Hazardous Polymerization	Storage temperatures over 140°F can produce uncontrolled and exothermic polymerization
Hazardous Decomposition	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

POTENTIAL HEALTH EFFECTS

Eyes	
Acute (Immediate)	Conjunctivitis, irritation, tearing and burning
Chronic (Delayed)	Causes eye irritation.
Skin	
Acute (Immediate)	Irritation and inflammation. Allergic skin reaction may occur. Dermatitis
Chronic (Delayed)	Causes skin irritation
Inhalation	
Acute (Immediate)	May cause respiratory irritation. May cause drowsiness or dizziness.
Chronic (Delayed)	Prolonged inhalation may be harmful
Ingestion	
Acute (Immediate)	Swallowing a small quantity of this material will result in serious health hazard
Chronic (Delayed)	No data available
Component Carcinogenicity	Methyl methacrylate (80-62-6) IARC: Group 3 - Not classifiable as to its carcinogenicity to humans 2-Ethylhexyl acrylate (103-11-7) IARC: Group 2B - Possibly carcinogenic to humans
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.

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
 STOT = Specific Target Organ Toxicity



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) 96 Hours	>69 (Water flea) 48 Hours	>110 (algae) 72 hours
2-Ethylhexyl acrylate	103-11-7	>100 (Rainbow trout) 96 Hours	>17 (Water flea) 48 Hours	>44 (green algae) 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

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).

ABBREVIATION KEY

LC50 = Lethal concentration, 50 Percent
 DOT = Department of Transportation
 TSCA = Toxic Substances Control Act
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

EC50 = Effective concentration, 50 Percent
 TGA = Therapeutic Goods Administration
 DSL = Domestic Substances List (Canada)



SECTION 15 REGULATORY INFORMATION

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 This product does not contain chemical known in the state of California to cause cancer, birth defects or reproductive harm.

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

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.

SAFETY DATA SHEET
DERBIFLASH RS 233 SL MORTAR



SECTION 1 IDENTIFICATION

Product Name Derbiflash RS 223 Mixing Powder
Recommended Use Filler for self-levelling mortar
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 Carcinogenicity: Category 1

Hazard Pictographs



Signal Word **DANGER**

Hazard Statements H350 - Suspected of causing cancer

Precautionary Statements
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust
P264 - Wash hands, forearms and face thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear gloves/protective clothing/eye protection/face protection

Response
P301 + P312 + P330 If swallowed: Rinse mouth.
P303+P361+P353 - If on skin (or hair), Rinse skin with water/shower
P304+P340+312 If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell
P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO₂), foam, dry extinguishing powder to extinguish

Storage P405 - Store locked up.

Disposal P501 - Dispose of container in accordance with local, regional or national regulations

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Crystalline silica	14808-60-7	60 - 100

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.

ABBREVIATION KEY

GHS = Global Harmonized System

STOT = Specific Target Organ Toxicity



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.

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell.

First-Aid, Ingestion 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

Fire Hazard Non-combustible

Hazardous Products of Combustions CO, CO₂, Nitrogen oxides, hydrocarbons, black smoke and methacrylic acid fumes.

Extinguishing Media Universal foam, dry chemical powder, CO₂ or sand

Firefighting instruction Do not use a heavy water stream. Use standard procedure for chemical fires.

Explosion Hazard None

Protection Gear Do not enter fire area without proper equipment, including respiratory protection.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. *Use personal protective equipment as described in Section 8.*

Environmental Precautions None

Method and Materials for Containment & Clean Up Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area. Collect in closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

Handling Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. *Use personal protective equipment as described in Section 8.*

Storage Keep locked up. Provide adequate ventilation.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH
Crystalline silica	14808-60-7	0.1 mg/m ³ TWA (respirable)	0.025 mg/m ³ TWA (respirable)	0.05 mg/m ³ TWA (respirable)

ABBREVIATION KEY

OSHA = Occupational Safety & Health Administration

HCS = Hazard Communication Standard

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Physical State	Solid
Appearance	Grey, granular powder
Odor	odorless
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	No data available
Freezing Point	No data available
Flash Point	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor Density	Heavier than air
Specific Gravity	≈ 2.65
Density	No data available
Viscosity	No data available
VOC	0 g/l

SECTION 10 STABILITY AND REACTIVITY

Stability	Material is stable under advised storage and handling conditions
Reactivity	No potentially hazardous reactions known
Incompatibility	moisture, heat
Hazardous Polymerization	Will not occur
Hazardous Decomposition	During a fire, irritating/toxic gases such as: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbon by-products and black smoke

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 11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Eyes

Acute (Immediate)
Chronic (Delayed)

May cause temporary irritation, tearing and burning
This product is not expected to cause serious eye damage or irritation

Skin

Acute (Immediate)
Chronic (Delayed)

Prolonged skin contact may cause dryness, redness or cracking
This product is not expected to cause sensitization

Inhalation

Acute (Immediate)
Chronic (Delayed)

May cause respiratory irritation. May cause drowsiness or dizziness.
Prolonged inhalation may be harmful

Ingestion

Acute (Immediate)
Chronic (Delayed)

Swallowing a small quantity of this material will result in serious health hazard
No data available

Component Carcinogenicity

Crystalline silica (14808-60-7)
IARC: Group 1 - Carcinogenic to humans

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

Based on available data, the classification criteria are not met

STOT Single Exposure

Based on available data, the classification criteria are not met

STOT Repeated Exposure

Based on available data, the classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

Eco toxicity

No known significant effects or critical hazards

Persistence & Degradability

No Data Available

Bioaccumulative potential

No Data Available

Soil Absorption/Mobility

No Data Available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method

The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations.

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

Transportation Regulations

This product is not regulated as a hazardous material in transportation.



SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed
DSL Inventory Components are listed
CERCLA This material does not contain any components with a CERCLA RQ
Sara 311/312 Categories Chronic Health Hazard
Sara 313 This material does not contain any components with a section 304 EHS RQ
Clean Air Act This product does not contain any hazardous air pollutants
CA Proposition 65 **WARNING:** This product can expose you to chemicals, including Crystalline silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Crystalline silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16 OTHER INFORMATION

Preparation Date April 2020
Summary of Changes New product
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