

SECTION 1 IDENTIFICATION

Product Name Derbiflash RS 281 Clear Finish

Recommended UseTop coat for PMMA waterproofing system

RestrictionsFor Professional use onlyManufacturerPerformance Roof SystemsAddress4821 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.
P362 - Take off contaminated clothing and wash before reuse.
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	15 - 40
2-Ethylhexyl acrylate	103-11-7	7 - 13
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.

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 Flash Point

Highly flammable liquid and vapor

Hazardous Combustion Extinguishing Media

Firefighting instruction

35.6°F (MMA Closed Cup) LEL: N/A UEL: N/A

Universal foam, dry chemical powder, CO2 or sand

Use of water spray when fighting fire may be inefficient because of the low flash point of the product. Evacuate area. Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standards. Approach fire from upwind and fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Always stay away from containers because of the high risk of explosion. Stop leak before attempting to put out the fire. If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out. Move containers from fire area if this can be done without risk. Cool containers with flooding quantities of water until well after fire is out.

CO, CO₂, Nitrogen oxides, hydrocarbons, black smoke and methacrylic acid fumes.

Explosion Hazard Protection Gear

May form flammable/explosive vapor-air mixture.

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

This product and its vapours are extremely flammable and toxic. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing mist, vapour or dust. Wash thoroughly after handling. Before handling, it is very important that ventilation controls are operating and protective equipment requirements are being followed. People working with this product would be properly trained regarding its hazards and its safe use. Eliminate all ignition sources (e.g. sparks, open flames, hotsurfaces). Keep away from heat. Ground transfer containers to avoid static accumulation. Tightly reseal all partially used containers. Do not cut, puncture or weld containers.

Storage

Store in a cool well-ventilated area out of direct sunlight and away from heat and ignition sources. No smoking near storage area. Store away from incompatible materials. Store the product according to occupational health and safety regulations and fire and building codes. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment near storage area. Inspect all containers to make sure they are properly labelled.



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/m³ TWA	205 mg/m³ TWA 410 mg/m³ (STEL)	410 mg/m³ TWA

Engineering Measures/

Controls

Adequate ventilation systems as needed to control concentrations of airborne

contaminants below applicable threshold limit values.

General Industrial Hygiene

Environmental Exposure

Use good industrial hygiene practices in handling this material. Follow best practice for site management and disposal of waste.

Controls

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** Clear

Odor Strong, solvent-like **Odor Threshold** No data available No data available Ha No data available **Relative Evaporation Rate Boiling Point** No data available No data available **Freezing Point Flash Point** 35.6°F (2°C) **Ignition Temperature** 446°F (230°C) **Decomposition Temperature** No data available Flammability (solid, gas) No data available **Vapor Density** Heavier than air **Specific Gravity** ≈ 0.99 kg/L 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

= 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 AvoidOpen 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)	78,000/4hr (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

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 - Possibly carcinogenic to humans

2-Ethylhexyl acrylate (103-11-7)

IARC: Group 2B - Possibly carcinogenic to humans

Reproductive ToxicityBased on available data, the classification criteria are not metTeratogenicityBased on available data, the classification criteria are not metMutagenicityBased on available data, the classification criteria are not met

Aspiration Hazard Not classified

STOT Single Exposure STOT RE Hazard Category 3

STOT Repeated ExposureBased 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) 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
Diisopropanol-P-toluidine	38668-48-3	N/A	>28.8 (Water flea) 48 Hours	>84 (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

Soil Absorption/Mobility No Data

Ozone-Depletion Potential This product neither contains, nor was manufactured with a Class I or Class II ODS

as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

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



SECTION 15 REGULATORY INFORMATION

TSCA InventoryComponents 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 65This 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
Diisopropanol-P-toluidine	38668-48-3	No	No	No	No	No	No

SECTION 16 OTHER INFORMATION

Preparation Date April 2020
Revision Date March 2022
Summary of Changes Branding Update

Disclaimer The information and recommendations contained herein are to the best of

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