

Safety Data Sheet

ResNsand

MSDS No. 16000.6

Date of Preparation: 3/9/06

Revision: 4/7/15

Section 1 - Chemical Product and Company Identification

Product: ResNsand

Chemical Family: Poly Allyl DiGlycol Carbonate

Recommended use: various

Restrictions on use: none known

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.122: non-hazardous

Signal Word: None

Symbol: None

Hazard Statements: None

Precautionary Statements: None

Hazards not otherwise classified: Combustible dust. May form combustible dust concentrations in the air.

HMIS

H 2

F 0

R 0

PPE†

†Sec. 8

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Percent by Weight
Poly Allyl DiGlycol Carbonate	25656-90-0	>99.5%
Anti-static agent	002764-13-8	<0.5%

Section 4 - First Aid Measures

Description of necessary measures, subdivided according to the different routes of exposure:

Inhalation: If overcome by high dust concentrations, remove to a ventilated area. Call physician if irritation persists.

Eye Contact: Flush eyes thoroughly for 15 minutes taking care to rinse under eyelids. Do not scrub. Abrasion may cause irritation. If discomfort continues, continue to wash with water. If irritation persists, consult a physician.

Skin Contact: Wash skin thoroughly with soap and water. Consult a physician if irritation persists.

Ingestion: If swallowed, give large amounts of water, induce vomiting. Consult a physician.

Most important symptoms and effects, acute and delayed:

Inhalation: Potential respiratory tract irritation.

Eye Contact: Exposure to eyes from solids or dusts may cause irritation or scratch the surface of the eye.

Skin Contact: Potential of slight irritation to the skin.

Ingestion: May be harmful if swallowed.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Foam, Water spray, carbon dioxide, or other dry chemical.

Unsuitable Extinguishing Media: None.

Specific hazards arising from the chemical:

Unusual Fire or Explosion Hazards: Dust can form explosive mixture with air. Sealed (closed) containers can build up pressure if exposed to heat (fire).

Hazardous Combustion Products: Smoke, propane, carbon dioxide.

Sensitivity to Static Discharge: Avoid generating dust. Fine dust dispersed in air, in sufficient concentrations, and in the present of an ignition source is a potential dust explosion hazard.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode. Wear full protective clothing.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear safety glasses with side shields, gloves, and dust mask.

Methods and materials for containment and cleaning up: Sweep up and place in appropriate disposal container. Avoid generating dust or accumulating dust. Avoid dust dispersal in the air. Spilled material can be a slipping hazard. Eliminate flames, sparks, excessive temperatures, and oxidizing agents. Non-sparking tools should be used.

Section 7 - Handling and Storage

Precautions for safe handling: Avoid contact with eyes and skin. Use in a well-ventilated area. Avoid generation and breathing of dust. Minimize dust generation and accumulation.

Storage Requirements: Store in closed, properly labeled containers in a cool, ventilated area. Keep away from heat, open flames, and oxidizing agents. Do not transfer to unmarked containers.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Mechanical ventilation and local exhaust. Use explosion proof electrical equipment for very high dust levels. Ensure ventilation and dust-handling systems prevent the escape of dust into work areas and that there is no leakage from the equipment.

Administrative Controls:

Respiratory Protection: Recommend a 3M #8710 Dust and Mist respirator.

Protective Clothing/Equipment: Use rubber gloves. Wash thoroughly before eating, smoking, applying cosmetics, etc. Safety glasses with side shield, goggles and/or a face shield. If necessary, protective rubber apron, shoes, or boots, or TYVEC protective suit with hood.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Poly Allyl DiGlycol Carbonate	none estab.	none estab.	none estab.	none estab.
Anti-static agent	none estab.	none estab.	none estab.	none estab.

Section 9 - Physical and Chemical Properties

Appearance: granular clear solid

Odor: odorless

Odor Threshold: n/e

pH: 5.19

Freezing/Melting Point: not applicable

Boiling Point: not applicable

Flash Point: not applicable

Flash Point Method: not applicable

Evaporation Rate: not applicable

Flammability Classification: Non-flammable.

Upper/lower flammability or explosive limits: not applicable

Vapor Pressure: not applicable

Vapor Density (Air=1): not applicable

Relative Density: 1.31 **Water Solubility:** Insoluble

Other Solubilities: not determined

Partition coefficient: n-octanol/water; not determined

Auto-ignition Temperature: Not determined.

Decomposition Temperature: Not determined

Viscosity: not applicable

Section 10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions.

Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of Hazardous Reactions: None under normal processing. Hazardous polymerization does not occur.

Conditions to Avoid: Excessive heat, ignition sources.

Incompatible materials: Oxidizing agents.

Hazardous Decomposition Products: Smoke, propane, carbon dioxide.

Section 11- Toxicological Information

Information on the likely routes of exposure:

Inhalation: Inhalation of high concentrations of this inert nuisance particulate can result in mild irritation of the respiratory tract.

Eye: May cause irritation or scratch the surface of the eye through mechanical abrasion.

Skin: May cause slight irritation.

Ingestion: May be harmful if swallowed.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye: Exposure to eyes from solids or dusts may cause irritation or scratch the surface of the eye.

Skin: Potential of slight irritation to skin.

Ingestion: May be harmful if swallowed.

Inhalation: Potential respiratory tract irritation if inhaled.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure: Irritation of eyes, skin.

Numerical measures of toxicity: Not determined.

Carcinogenicity: NTP, IARC, or OSHA does not consider this product carcinogenic.

Section 12 - Ecological Information

Ecotoxicity: This product is not classified as environmentally hazardous.

Persistence and degradability: Not determined.

Bioaccumulative potential: Not determined.

Mobility in soil: Not determined.

Section 13 - Disposal Considerations

Disposal: Dispose as solid waste and contaminated packaging in sanitary landfill or incinerate according to Federal, State, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101): This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.

NMF classification: Class 60-Item 156200

UN Number: None

UN proper shipping name: None

Transport hazard classes: DOT-not regulated; IATA-not regulated; IMDG-not regulated

Packing group: None

Environmental hazard: No

Transport in bulk according to Annex II or MARPOL 73/78 and the IBC Code: not regulated

Special precautions: None

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification: Not classified

CERCLA Hazardous Substance (40 CFR 302.4) Not listed

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

This substance is on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

International Regulations:

Australia: Present on AICS.

Canada: Present on Non-Domestic Substances List (NDSL).

China: Not present.

Europe: Not present on EINECS.

Japan: Present on ENCS. 6-1159

Korea: Present on ECL. KE-10464

New Zealand: Not present.

Philippines: Not present on PICCS.

Section 16 - Other Information

Prepared By: Stephanie Nichols
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Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

Ultra 4	Ultra 8	Ultra 12	Ultra 16	Ultra 20
Ultra 40	Ultra 60	Ultra 100	Ultra 200	Ultra 300
Ultra 1200	Ultra -30	Ultra16RM	Ultra20RM	Ultra -3/8
Ultra35AA				

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