

Safety Data Sheet

Eclipsecoat 9KA

MSDS No. 16002.3

Date of Preparation: 5/10/05

Revision: 9/4/15

Section 1 - Chemical Product and Company Identification

Product: Eclipsecoat 9KA

Other means of identification: APC/9KA

Recommended use: partitioning agent in glass manufacturing

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Date Revised: 9/4/15

Preparer: Stephanie Nichols

Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Hazardous

GHS Classification:

Acute Toxicity Inhalation-Category 5

Skin Irritation-Category 2

Eye Irritation-Category 2

Carcinogenicity-Category 2

HMIS

H 2

F 1

R 0

PPE[†]

[†]Sec. 8

Signal Word: Warning



Symbol:

Hazard Statements:

May be harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer of the nasal cavities and para nasal sinuses.

Precautionary Statements:

Wash with plenty of soap and water after handling.

Wear eye protection/face protection/protective clothing/dust mask.

Avoid breathing dust.

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If eye irritation persists: get medical advice/attention.

If exposed or concerned: get medical advice/attention.

If inhaled: call a poison center or doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take of contaminated clothing and wash it before reuse.

Hazards not otherwise classified: Wood flour is extremely combustible and explosive when airborne. Wood flour or wood dust has a strong to sever explosion hazard if a "cloud" contains an ignition source.

Section 3 - Composition / Information on Ingredients

Ingredient Name

CAS Number

Percent Weight

Cellulose

9004-34-6

50%

Adipic Acid

124-04-9

50%

Section 4 - First Aid Measures

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

Inhalation: Remove from exposure to fresh air immediately. Seek medical attention if breathing difficulties continue.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if possible. Get immediate medical aid.

Skin Contact: Wash skin thoroughly with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cups of water. Get medical aid.

Most important symptoms/effects, acute and delayed: Individuals with preexisting skin and respiratory conditions may be more susceptible to effects of this material.

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

Section 5 - Fire-Fighting Measures

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

Unsuitable Extinguishing Media: None known.

Special hazards arising from the chemical:

Unusual Fire or Explosion Hazards: Depending on the moisture content and particulate diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the LEL for wood dusts.

Explosion sensitivity to mechanical impact: No

Explosion sensitivity to static discharge: In the form of dust, this material is sensitive to static discharge and may form explosive mixtures in air.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide.

Fire-Fighting Instructions: Incipient fire responders should wear eye protection. Structural firefighters must wear SCBA and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Evacuate all unnecessary personnel. Maintain adequate ventilation and remove any ignition sources. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up: Reduce airborne dust and prevent scattering by moistening with water. Sweep or vacuum spills for recovery or disposal. Use non-sparking tools and equipment.

Section 7 - Handling and Storage

Precautions for safe handling: Wash hands and face thoroughly after handling. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location.

Storage Requirements: Keep in a tightly closed container. Avoid contact with drying oils or moisture causing biological activity, as spontaneous combustion under certain conditions may be possible. Avoid open flame. Store in a dry, cool, clean and ventilated area to avoid heat and humidity. Wood flour is extremely combustible and explosive when airborne. Wood flour or wood dust has a strong to severe explosion hazard if a dust "cloud" contains an ignition source. Employ grounding, venting, and explosion relief provisions in accord with good engineering practices.

Section 8 - Exposure Controls / Personal Protection

Ventilation and engineering controls: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided. Use local exhaust ventilation and process enclosure if necessary to control airborne dust.

Administrative Controls:

Respiratory Protection: NIOSH or other recognized dust masks should be mandatory.

Protective Clothing/Equipment:

Eyes: Wear safety glasses with side shields or goggles. In extremely dusty environments wear unvented or indirectly vented goggles to avoid eye irritation or injury. Maintain eyewash fountain and quick drench facilities in work area.

Skin: Rubber gloves and lab coat, apron, or coveralls.

Work Hygiene: Wash hands after each exposure especially before and after using sanitary facilities.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Cellulose	15 mg/m ³ total dust 5mg/m ³ respirable	none estab.	10 mg/m ³	none estab.
Adipic Acid	none estab.	none estab.	5 mg/m ³	none estab.

Section 9 - Physical and Chemical Properties

Appearance: light to dark colored solid
Odor: dependent on the wood species and time since dust was generated
Odor Threshold: not established
pH: not determined
Freezing/Melting Point: 306°F (152°C)
Boiling Point: 329°F (165°C)
Flash Point: 385°F (196°C)
Flash Point Method: not available
Evaporation Rate: not applicable
Flammability Classification: Combustible solid
Upper/lower flammability or explosive limits: 40g/m³-LEL

Vapor Pressure: not determined
Vapor Density (Air=1): not determined
Relative Density: not determined
Water Solubility: 9g/l @ 20°C
Other Solubilities: not applicable
Partition coefficient: n-octanol/water; no data available
Auto-ignition Temperature: as low as 212°F (100°C)
Decomposition Temperature: 500-518°F (260-270°C)
Viscosity: not determined

Section 10 - Stability and Reactivity

Reactivity: Water, bromine, pentafluoride, sodium nitrate, fluorine, strong oxidizers.

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

Possibility of hazardous reactions: None anticipated under normal or recommended handling and storage conditions.

Conditions to Avoid: Ignition sources, avoid extreme heat.

Incompatible materials: Avoid contact with oxidizing agents and drying oils, bases, reducing agents. Corrosive to mild steel at room temperature.

Hazardous Decomposition Products: Thermal-oxidative degradation of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids. Carbon dioxide.

Section 11- Toxicological Information

Information on the likely routes of exposure: Skin, Eye, Inhalation

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

Inhalation: High concentrations are irritating to the respiratory tract; may cause headaches, dizziness, nausea, vomiting, and malaise.

Eye: Contact may cause irritation and discomfort.

Skin: Contact may cause irritation. Various species of wood dust can cause allergic contact dermatitis in sensitized individuals.

Ingestion: Not a normal route of entry for this material.

Delayed and immediate effects and also chronic effects from short- and long-term exposure: Wood dust, depending on the species, may cause dermatitis on prolonged repetitive contact; may cause respiratory sensitization and/or irritation.

Numerical measures of toxicity:

Cellulose:

Acute Toxicity:

Inhalation: Rat-LC₅₀: >5800 mg/m³/4hr

Intraperitoneal: Rat-LD₅₀: >31600 mg/kg

Oral: Rat-LD₅₀: >5g/ kg

Skin: Rabbit-LD₅₀: >2g/kg

Skin and eye irritation: no data available

Mutation: no data available

Reproductive effects: no data available

Tumorigenic: no data available

Adipic Acid:

Acute Toxicity:

Inhalation: Rat-LD₅₀: >7.7 mg/l/4hr

Oral: Rat-LD₅₀: >5000mg/ kg

Dermal: Rabbit-LD₅₀: >7900mg/kg

Skin irritation: Rabbit-slightly irritating

Eye irritation: Rabbit-highly irritating; risk of serious damage to eyes.

Skin sensitization: Guinea pig-non-sensitizing.

Repeat dose toxicity: Oral, rat 2 years: NOAEL: 750mg/kg.

Carcinogenicity: NTP and OSHA do not consider this product carcinogenic. IARC classified wood dust as a carcinogen to humans. This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and para nasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon, or rectum with exposure to wood dust.

Section 12 - Ecological Information

Eco-toxicity: no data available

Persistence and degradability: no data available

Bio-accumulative potential: no data available

Mobility in soil: no data available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

UN Number: not classified as dangerous goods

UN proper shipping name: not classified as dangerous goods

Transport hazard classes: None

Packaging group: None

Environmental hazards: None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

Special precautions for user: 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) Adipic Acid RQ 5000#
SARA Toxic Chemical Section 313(40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) Section 302 (40 CFR 355): Not listed
SARA Hazardous Chemicals Section 311/312: Acute health hazard

OSHA Regulations:

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

TSCA

This substance or all of its components are 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.

CALIFORNIA PROPOSITION 65: Wood dust is known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS:

Canada DSL: Listed

Canada WHMIS: Class D2B

Europe EINECS: Listed

Europe Classification: [Xn] Harmful, [Xi] Irritant

Europe Risk Phrases:

R2: Risk of explosion by shock, fire, or other sources of ignition.

R36/37/38: Irritating to eyes, respiratory system, and skin.

R41: Risk of serious damage to eyes.

R45: May cause cancer.

Europe Safety Phrases:

S2: Keep out of the reach of children.

S16: Keep away from sources of ignition.

S22: Do not breathe dust.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.

S39: Wear eye/face protection.

S51: Use only in a well-ventilated area.

Australia AICS: Listed

Japan ENCS: Listed

Korea ECL: Listed

Philippines PICCS: Listed

Switzerland Giftliste: Listed

ASIA-PAC: Listed

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes: updated to SDS

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

APC/9KA

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