

SAFETY DATA SHEET

Product: 509-1, 509-2, 509-3
Revision Date: 5/8/2023

1. MATERIAL IDENTIFICATION

Product Name: Crystalbond 509-1, 509-2, 509-3
Product Description: Transparent Solid, Odorless @ Room Temperature, Resin Odor When Heated
Product Use: Temporary Mounting Adhesive
Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989
Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Acute Toxicity, Oral	Category 5
Skin Irritant	Category 2
Eye Damage	Category 2B

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Ethylene Glycol – Phthalic Anhydride Polymer

GHS Hazard Statements for Health Hazards:

H303	May be harmful if swallowed
H315	Causes skin irritation
H320	Causes eye irritation

GHS Precautionary Statements - Prevention:

P261	Avoid breathing dust, fume, gas, mist, vapors, spray
P264	Wash skin thoroughly after handling
P280	Wear protective gloves
P281	Use personal protective equipment as required

GHS Precautionary Statements - Response:

P302+P352	IF ON SKIN wash with plenty of soap and water
P332+P313	If skin irritation occurs, get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P305+P351+P338	IF IN EYES rinse cautiously with water for several minutes; remove contact lenses
P337+P313	If eye irritation persists, get medical attention/advice

GHS Storage/Disposal:

None

3. COMPOSITION

Chemical Name	CAS No.	EC No.	Concentration	GHS Product Identifier
Phthalic Anhydride	85-44-9	201-607-5	60.0-90.0%	H303 Acute Toxicity, Oral, Cat 5 H315 Skin Corrosion/Irritation, Cat 2 H320 Eye Damage/Irritation, Cat 2B
Ethylene Glycol	107-21-1	203-473-3	10.0-40.0%	H302 Acute Toxicity, Oral, Cat 4 H373 STOT RE, Respiratory, Cat 2

Note: This composition is a polymerized solid mixture.

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. Hot fluid product: Cool burns with plenty of low-pressure water and get immediate medical attention.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use. Hot Fluid: Immediately cool skin with water and cold packs for at least 15 minutes. Do not put ice directly on skin. Do not attempt to remove solidified wax from the skin as severe tissue damage may result. Get immediate medical attention.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Medical Conditions Possibly Aggravated by Exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Flash Point: > 263 °C (505 °F)

Flammable Limits: Not determined.

Extinguishing Media: Use dry chemical, foam, or carbon dioxide to extinguish flames.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: None.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup: Avoid breathing dust. Use vacuuming or sweeping compound for cleanup. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. Flush area with water to complete cleanup.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing dust and vapors generated when melted. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.

Storage: Store in an area that is cool, dry, and well ventilated. Water contamination should be avoided. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	CAS No.	EC No.	TLV (mg/m ³)	PEL (mg/m ³)
Phthalic Anhydride	85-44-9	201-607-5	1 ppm	1 ppm
Ethylene Glycol	107-21-1	203-473-3	50 ppm	50 ppm

Engineering Controls: Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.

Skin Protection: Wear body-covering protective clothing and gloves.

Eye Protection: Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid

Color: Transparent Amber

Odor: No Odor at Room Temperature; Resin Odor Upon Heating

Specific Gravity, g/cc 1.31

Water Solubility: Insoluble

Boiling Point: > 212 °F

Melting Point: 110-120 °F

Vapor Pressure: Nil

Vapor Density (air=1): > 1

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under all conditions of use and storage.

Conditions to Avoid: Excessive heat, sparks, open flames.

Materials to Avoid: None.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity: No LC50 data available for this product.

Carcinogenicity: NTP, IARC or OSHA does not list the components of this product as carcinogenic.

Irritancy: None known.

Sensitization: This product has a component that is known to cause human skin or respiratory sensitization.

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryo Toxicity: The components of this product are not reported to produce embryo toxic effects in humans.

Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans.

Reproductive Toxicity: The components of this product are not reported to produce reproductive effects in humans.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Not determined.

Mobility in Soil: Not determined.

Persistence / Degradability: Not determined.

Environmental Stability: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Bioaccumulation / Accumulation: Not determined.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose in accordance with federal, state and local regulations and permits.

14. TRANSPORTATION INFORMATION

DOT UN Status: The material is not a regulated hazardous material for transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA: All ingredients of this material are listed on the TSCA inventory.

CERCLA: No CERCLA reportable quantity has been established for this material.

SARA Title III



Sections 302, 304, 313: This product does not contain any substances reportable under these sections.

Sections 311, 312:

Hazard Classes	Yes/No
Fire Hazard	No
Reactivity Hazard	No
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No

International Inventory	Status
Canada (DSL)	Yes
Europe (EINECS/ELINCS)	Yes
Australia (AICS)	Yes
Japan (MITI)	Yes
South Korea (KECL)	Yes

16. OTHER INFORMATION

NFPA Ratings (scale 0 – 4)	Health, 1 Flammability, 1 Reactivity, 0 Personal Protection, H	
HMIS Ratings (scale 0 – 4)	Health, 1 Flammability, 1 Reactivity, 0 Personal Protection, H	

Key Legend Information

ACGIH	American Conference of Governmental Industrial Hygienists
ARD	International Agency for Research on Cancer
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
DSL	Domestic Substance List
HMIS	Hazardous Materials Identification System
ND	Not Determined
NE	Not Established
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments & Reauthorization Act
SARA Title III	Emergency Planning & Community Right to Know Act
SARA Section 302	Extremely Hazardous Substances
SARA Section 304	Emergency Release
SARA Section 311	MSDS/List of Chemicals & Hazardous Inventory
SARA Section 312	Emergency & Hazardous Inventory
SARA Section 313	Toxic Chemicals & Release Reporting
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

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