

# Safety Data Sheet

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

### Section 1: Identification

#### 1.1. **Product identifier**

Product form : Mixture

Product Identifier(s) Dymalink® 706

Dymalink® 706 ABC123, where ABC123 can be any combination of letters and/or numbers

#### 1.2 Recommended use of the chemical and restrictions on use

: Rubber coagent Use of the substance/mixture

### Details of the supplier of the safety data sheet

Resin Solutions, LLC 665 Stockton Drive, Suite 100 Exton, PA 19341

For non-emergency product information:

Phone: +1-484-284-8998

Email: product.stewardship@resinsolutions.com 1.4. **Emergency telephone number** 

: CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages) **Emergency number** 

Resin Solutions, LLC: +1-484-284-8989 (Language: English only)

#### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Combustible Dust

Acute toxicity (oral) Category 4

Serious eye damage/eye irritation Category 1

Skin sensitization, Category 1

#### 22 Label elements

### **GHS US labeling**

Hazard pictograms (GHS-US)





Signal word (GHS US) : Danger

Hazard statements (GHS-US) Harmful if swallowed

May cause an allergic skin reaction

Causes serious eye damage

May form combustible dust concentrations in air

Precautionary statements (GHS-US) Avoid breathing dust.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear face protection, eye protection, protective gloves.

If swallowed: Call doctor, a POISON CENTER if you feel unwell.

If on skin: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Immediately call doctor.

Specific treatment (see Section 4.1 of SDS or information on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Dispose of contents and container in accordance with all local, regional, national and

international regulations

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#### Hazards not otherwise classified

Other hazards which do not result in

classification

: Combustible Dust

Dust may form explosive mixture in air

Dust from this product may cause respiratory irritation

Thermal decomposition products are produced at elevated temperatures and these may be

flammable

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

#### 2.5. Additional information

Based on conditions common to industrial

workplace use of this product

: See section 7: Handling and Storage

Based on professional judgment, inconclusive

testing, or sensitive individuals

Dust from this product may cause respiratory irritation.

May cause mild skin irritation.

### Section 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### Mixture 3.2.

Where concentration of substances listed for this product are given in ranges, the exact percentage is being withheld as a trade secret.

Name	CAS-No.	%
		(Weight Percent)
Zinc acrylate	14643-87-9	60 – 100
Trade secret zinc compound	Trade secret	< 10

### Section 4: First aid measures

### Description of first aid measures

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact

Wash immediately with plenty of soap and water. Remove immediately contaminated clothing.

Get immediate medical advice/attention.

First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion

: Rinse mouth out with water. Get immediate medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

: Dust from this product may cause respiratory irritation.

Symptoms/effects after skin contact

: May cause an allergic skin reaction. May cause mild skin irritation.

Symptoms/effects after eye contact

: Causes serious eve damage.

Symptoms/effects after ingestion

: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## Section 5: Firefighting measures

#### **Extinguishing media** 5.1.

Suitable extinguishing media Unsuitable extinguishing media : Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.

: Use of heavy stream of water may spread fire.

#### 5.2. Special hazards arising from the chemical

Fire hazard

Vapors generated from overheating/melting/decomposition may be flammable and may cause fire/explosion if source of ignition is present.

Explosion hazard

Potential dust explosion hazard. When dust becomes airborne and is exposed to an ignition source, sufficient combustible/flammable dust may exist to burn in the open or explode if confined. Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapor or dust mixtures.

Hazardous decomposition products in case of fire

5.3. Advice for firefighters : Carbon oxides (CO, CO2). Metallic oxides. Metallic peroxides. Toxic fumes.

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Fight fire from safe distance and protected location.

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Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures for non-emergency personnel

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Evacuate unnecessary personnel. Remove ignition sources. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures for emergency

responders

No additional requirement.

#### 6.2. Methods and material for containment and cleaning up

For containment : Sweep up or vacuum up the product. Avoid creating or spreading dust.

Methods for cleaning up : Dispose of materials or solid residues at an authorized site.

#### Reference to other sections

See section 8. Exposure controls/personal protection.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Avoid contact with elevated temperature or molten product to prevent burns. Avoid all contact with skin, eyes, or clothing. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising powdered material due to explosion hazard. Prevent the build-up of electrostatic charge. Use only non-sparking tools. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Refer to the latest edition of the National Fire Protection Association (NFPA) 654 publication, "Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", and "Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosions" (OSHA SHIB, July 31, 2005, updated Nov. 12, 2014,

https://www.osha.gov/dts/shib/shib073105.html) for a complete discussion on dust explosion prevention and control measures. Although these publications discuss inerting as a method of protection against dust explosion, an inert gas atmosphere is not recommended during handling of this material because the inhibitor in this product requires oxygen to be effective.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Electrical equipment should conform to the National Electric Code.

Storage conditions Keep container tightly closed in a cool, well-ventilated place. Store in a dry, cool area. Protect

from moisture.

This material must be stored under the specified conditions. At elevated storage temperatures, the material may undergo self-reaction. In a low-oxygen, high-temperature environment, it may polymerize. In a normal-oxygen, high-temperature environment, it may oxidize. At temperatures at or above about 150°C (about 300°F), either self-reaction may accelerate

rapidly. Both reactions generate heat and may result in fire.

Incompatible materials Strong reducing agents. Strong oxidizing agents.

: 10 - 32 °C Storage temperature

### Section 8: Exposure controls/personal protection

#### 8.1. **Occupational Exposure Limits**

The following constituents are the only constituents of the product which have a PEL, TLV, or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Dymalink® 706				
USA ACGIH	ACGIH OEL TWA	10 mg/m³ (inhalable dust)		
		3 mg/m³ (respirable dust)		
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified		
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable dust)		
USA OSHA	Remark (OSHA)	Particulates, not otherwise classified		
Trade secret zinc compound (Trade secret)				
USA ACGIH	ACGIH OEL TWA	10 mg/m³ (inhalable particulate matter (Stearates)		
		3 mg/m³ (respirable particulate matter (Stearates)		

#### 8.2. **Exposure controls**

Appropriate engineering controls : Ensure good ventilation of the work station. Safety shower. Eye fountain.

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Hand protection : Protective gloves. Do not use natural rubber gloves. Product used with solvents : wear thick (>

0.5 mm) nitrile gloves. Replace gloves immediately when torn or any change in appearance

(dimension, color, flexibility, etc.) is noticed.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Appropriate dust or mist respirator should be used if airborne particles are generated when

handling this material.

Not applicable

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance Powder. White. Color Odor Slightly acidic. Odor threshold No data available рΗ Not applicable Relative evaporation rate (butyl acetate=1) No data available Melting point : No data available Freezing point : Not applicable Initial boiling point and boiling range Not applicable Flash point No data available Auto-ignition temperature : Not applicable No data available Decomposition temperature Flammability No data available Vapor pressure Not applicable

Relative density : 1.61

Solubility : Water: Slightly soluble
Partition coefficient n-octanol/water (Log Kow) : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable
Explosion limits : No data available

9.2. Other information

Relative vapor density at 20°C

Explosive properties : Dust may form explosive mixture in air

Explosion Index, Kst (bar. m/s): 122 (estimate based on similar tested products)
Max. Explosive Pressure (Pmax), bar: 7.4 (estimate based on similar tested products)

Particle size: < 100 micron (approximately 100%). 250 J (estimate based on similar tested products)

Section 10: Stability and reactivity

# 10.1. Reactivity

Minimum ignition energy

Unstable (reactive) on depletion of inhibitor.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

This material must be stored under the specified conditions. At elevated storage temperatures, the material may undergo self-reaction. In a low-oxygen, high-temperature environment, it may polymerize. In a normal-oxygen, high-temperature environment, it may oxidize. At temperatures at or above about 150°C (about 300°F), either self-reaction may accelerate rapidly. Both reactions generate heat and may result in fire.

Normal use of this product in a high-temperature process under recommended conditions will not result in these hazardous reactions.

### 10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. Avoid dust formation. High temperature. Direct sunlight. Sparks. Open flame. Conditions which remove all oxygen from the product (the inhibitor requires presence of oxygen to prevent autopolymerization). High humidity. This product is an anhydrous salt that will readily absorb moisture upon exposure to a humid atmosphere.

## 10.5. Incompatible materials

Strong reducing agents. Strong oxidizing agents.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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# Section 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation. Ingestion. Skin and eye contact.

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Zinc acrylate (14643-87-9)		
LD50 oral rat	668 mg/kg (Results obtained on a similar product)	
LD50 dermal rat	> 2000 mg/kg (Results obtained on a similar product)	

 Trade secret zinc compound (Trade secret)

 LC50 inhalation rat
 > 200 mg/l (Exposure time: 1 h Source: NLM\_HSDB)

Skin corrosion/irritation : Not classified

Not irritating to rabbits on cutaneous application

Zinc diacrylate tested positive for corrosion to reconstructed human epidermis in an in vitro test (OECD Guideline 431), based on relative tissue viability. The result of this test corresponds to Skin Corrosion Category 1B.

The negative result from the rabbit test has been selected as the primary evidence for workplace and transportation classification of this product. Negative results obtained on similar substances tested by OECD Guideline 404 (rabbit skin test) and OECD Guideline 439 (in vitro

irritation test) provide supporting evidence for this conclusion.

Serious eye damage/irritation : Causes serious eye damage.

Zinc diacrylate was determined to be corrosive to rabbit eyes when tested under OECD Guideline 405. In vitro testing (OECD Guideline 437, Bovine Corneal Opacity and

Permeability) agreed with this result.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Zinc diacrylate tested positive for skin sensitization by in vitro testing under OECD Guidelines 442D and 442E. This result is supported by positive animal test results for similar substances.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Not applicable

Potential Adverse human health effects and

symptoms

: Dust from this product may cause respiratory irritation.

## Section 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow product to spread into the environment.

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### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Transfer to a safe disposal area in accordance with federal, state, and local regulations.

Product/Packaging disposal recommendations : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

## **Section 14: Transport information**

#### US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

Not regulated by US DOT

#### Transport by sea (IMDG)

Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SALTS), 9,

III, MARINE POLLUTANT

UN Number : UN3077

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Primary Hazard Class : 9 - Miscellaneous dangerous substances and articles

Packing Group : PGIII

Hazard labels (IMDG) :



EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A

### Air transport (IATA)

Transport document description (IATA) : UN 3077 Environmentally hazardous substance, solid, n.o.s. (ZINC SALTS), 9, III

UN Number : UN3077

Proper Shipping Name : Environmentally hazardous substance, solid, n.o.s.

Primary Hazard Class : 9 - Miscellaneous Dangerous Substances and Articles

Packing Group : PGIII

Hazard labels (IATA) :



### Section 15: Regulatory information

### 15.1. US Federal regulations

#### **EPA TSCA Status**

All components of this product are listed or exempt from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Active inventory. This product has no special requirements under TSCA, such as significant new use rules (SNUR), consent orders, test rules, or sections 4, 5, 6, 8(a), 8(d), 12(b) requirements.

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### **SARA Section 313 Supplier Notification**

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

CAS number	Chemical name	Concentration	
14643-87-9	Zinc acrylate	60 – 100%	
Trade secret	Trade secret zinc compound	< 10%	
Chemical names, CAS numbers, and/or exact concentrations of some components have been withheld as a trade secret			

This product contains one or more zinc compounds. Zinc compounds are listed as a category under SARA 313 and include any unique chemical substance that contains zinc as part of that chemical's infrastructure. See 40 CFR 372.65(c).

This information must be included in all Safety Data Sheets that are copied and distributed for this product. For additional information, see 40 CFR §372.45 Notification About Toxic Chemicals.

SARA Section 311/312 Hazard Classes Health hazard - Acute toxicity (any route of exposure)

Physical hazard - Combustible dust

Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization

Export Control Classification Number (ECCN): EAR99 (No License Required)

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **National inventories**

#### Dymalink® 706

Zinc acrylate:

Listed on or exempt from listing on the AICS (Australian Inventory of Chemical Substances)

Listed on or exempt from listing on the Canadian DSL (Domestic Substances List)

Listed on or exempt from listing on the China Inventory of Existing Chemical Substances (IECSC)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on or exempt from listing on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on or exempt from listing on the Korean ECL (Existing Chemicals List)

Listed on or exempt from listing on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

### 15.3. US State regulations

California Proposition 65 - To the best of our knowledge, there are no Proposition 65 chemicals present in this product at levels that would require warning under the California Safe Drinking Water and Toxic Enforcement Act.

## **Section 16: Other information**

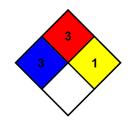
Other information

: This material contains an inhibitor (HQ, MEHQ, etc.) at < 0.1%. The type and amount meet product specifications. Contact a company representative for exact concentrations and details on inhibitor level maintenance.

Unless agreed to in a separate written agreement with the Customer, Resin Solutions, LLC makes no representations and disclaims all warranties, express or implied, with respect to biocompatibility and/or the suitability of this product for medical device applications including: (i) implantable devices intended for human or animal body, (ii) devices intended to be used in contact with internal body fluids, and (iii) devices intended to be used in contact with internal body tissues. If the Customer intends to use this product for any such application, it must first contact Resin Solutions, LLC and establish agreed terms and conditions for such use.

### NFPA (National Fire Protection Association)

NFPA health hazard : 3
NFPA fire hazard : 3
NFPA reactivity : 1



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**Hazard System Rating** 

Health : 3
Flammability : 3
Physical Hazard : 1

Personal protection : See section 8 of SDS

US OSHA LABEL as specified under 29 CFR §1910.1200 (f). The label shown may include supplemental information in addition to required elements.

# Dymalink® 706





## Danger

Harmful if swallowed May cause an allergic skin reaction Causes serious eye damage May form combustible dust concentrations in air

Avoid breathing dust.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear face protection, eye protection, protective gloves.

If swallowed: Call doctor, a POISON CENTER if you feel unwell.

If on skin: Wash with plenty of water.

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

Immediately call doctor.

Specific treatment (see Section 4.1 of SDS or information on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Issue date: November 10, 2023

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SDS REFERENCE NUMBER: FP17482

SDS Template - Resin Solutions LLC US Version 1.0

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