

Section 1: Identification

1.1. Product identifier

Product form : Substance
Product Identifier(s) : Dymalink® 719
Dymalink® 719 ABC123, where ABC123 can be any combination of letters and/or numbers
CAS-No. : 88-27-7

1.2. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Rubber coagent

1.3. 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

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)
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 2A
Skin sensitization, Category 1

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS US) : Warning

Hazard statements (GHS-US) : **Harmful if swallowed**
May cause an allergic skin reaction
Causes serious eye irritation
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 protective gloves, eye protection, face protection.
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.
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.
If eye irritation persists: 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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2.3. Hazards not otherwise classified

Other hazards which do not result in classification : Product can accumulate electrostatic charges that may cause fire by electrical discharges.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

2.5. Additional information

Based on professional judgment, inconclusive testing, or sensitive individuals : Dust from this product may cause respiratory irritation

Section 3: Composition/Information on ingredients

3.1. Substance

Name : Dymalink® 719
CAS-No. : Trade secret; 88-27-7
Chemical name : 2,6-di-tert-butyl-alpha-dimethylamino-p-cresol
Generic name : Phenolic Antioxidant

The specific chemical identity is being withheld as a trade secret.

3.2. Mixture

Not applicable

Section 4: First aid measures

4.1. 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 : Gently wash with plenty of soap and water. If irritation persists, consult a doctor. Heated Material: For serious burns from heated material, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. Do not attempt to remove adhered material from skin.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking, tears or redness persist.
First-aid measures after ingestion : Rinse mouth out with water. If necessary seek medical advice.

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.
Symptoms/effects after eye contact : Causes serious eye irritation.

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

Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.
Unsuitable extinguishing media : 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.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Metallic oxides. Metallic peroxides. Toxic fumes.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. 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.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

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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. Avoid breathing dust. 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.

6.3. 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 all contact with skin, eyes, or clothing. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with elevated temperature or molten product to prevent burns. 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.

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. Store in a dry, cool area.

Incompatible materials : Strong oxidizing agents. Strong reducing agents.

Storage temperature : 10 – 32 °C

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® 719 (88-27-7) | | |
|-------------------------|--------------------|--|
| USA ACGIH | ACGIH OEL TWA | 10 mg/m ³ (inhalable dust) 3 mg/m ³ (respirable dust) |
| USA ACGIH | Remark (ACGIH) | Particulates, not otherwise classified |
| USA OSHA | OSHA PEL (TWA) [1] | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |
| USA OSHA | Remark (OSHA) | Particulates, not otherwise classified |

8.2. Exposure controls

Appropriate engineering controls : Provide readily accessible eye wash stations and safety showers. Ensure good ventilation of the work station.

Hand protection : Protective gloves.

Eye protection : Chemical goggles or face shield.

Skin and body protection : Wear fire/flame resistant/retardant clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder. Crystals.

Color : light yellow.

Odor : Slight amine.

Odor threshold : No data available

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| | |
|---|-----------------------------|
| pH | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : ~ 94 °C |
| Freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability | : No data available |
| Vapor pressure | : ~ 0.05 mm Hg @ 20 °C |
| Relative vapor density at 20°C | : No data available |
| Relative density | : 1.026 |
| Solubility | : Water: Slightly soluble |
| Partition coefficient n-octanol/water (Log Kow) | : 4.24 estimated, ECHA data |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : Not applicable |
| Explosion limits | : No data available |

9.2. Other information

| | |
|-------------------------|--|
| Explosive properties | : Dust may form explosive mixture in air Particle size: < 1680 microns (~ 90%) Explosion Index, Kst (bar. m/s) : No data. (Compounds containing phenolic groups are known to have severe dust explosivity rating.) Max. Explosive Pressure (Pmax), bar : No data. (Compounds containing phenolic groups are known to have severe dust explosivity rating.). |
| Minimum ignition energy | : No data. (Compounds containing phenolic groups are known to have severe dust explosivity rating.) |

Section 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. High temperature. Avoid dust formation. Direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

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

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 |

| Dymalink® 719 (88-27-7) | |
|-------------------------|--|
| LD50 oral rat | 461 mg/kg body weight (OECD 401 method) |
| LD50 dermal rabbit | > 4000 mg/kg body weight (Similar to OECD guideline 402) |

| | |
|---------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
|---------------------------|------------------|

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| | |
|-----------------------------------|--|
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| 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 |

Section 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Dymalink® 719 (88-27-7)

| | |
|---|---------------------------|
| Partition coefficient n-octanol/water (Log Kow) | 4.24 estimated, ECHA data |
|---|---------------------------|

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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. (2,6-di-tert-butyl-alpha-dimethylamino-p-cresol), 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) :



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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. (2,6-di-tert-butyl-alpha-dimethylamino-p-cresol), 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.

SARA Section 313 Supplier Notification

This product contains no toxic chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA Section 311/312 Hazard Classes : Health hazard - Serious eye damage or eye irritation
Health hazard - Acute toxicity (any route of exposure)
Physical hazard - Combustible dust
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® 719 (88-27-7)

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 NZIoC (New Zealand Inventory of Chemicals)
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

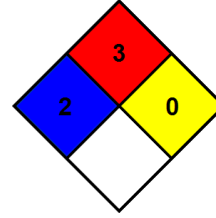
Other information : Unless agreed to in a separate written agreement with the Customer, Resin Solutions, LLC makes no representations and disclaims all warranties, express or implied, with respect to biocompatibility and/or the suitability of this product for medical device applications including : (i) 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.

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NFPA (National Fire Protection Association)

NFPA health hazard : 2
NFPA fire hazard : 3
NFPA reactivity : 0



Hazard System Rating

Health : 2
Flammability : 3
Physical Hazard : 0
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® 719

Resin Solutions, LLC
665 Stockton Drive, Suite 100
Exton, PA 19341 USA
Tel. +1-484-284-8989



Warning

Harmful if swallowed

May cause an allergic skin reaction

Causes serious eye irritation

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 protective gloves, eye protection, face protection.

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.

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.

If eye irritation persists: 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.

US SDS Version: 3.1

Issue date: November 10, 2023

SDS ID: DYMALINK_719

SDS REFERENCE NUMBER: FP01945

SDS Template - Resin Solutions LLC US Version 1.0

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