

Section 1: Identification

1.1. Product identifier

Product form : Mixture
Product Identifier(s) : Dymalink® 664

1.2. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Additives
Polymers

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)

Acute toxicity (oral) Category 4
Serious eye damage/eye irritation Category 1
Skin sensitization, Category 1

2.2. 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

Precautionary statements (GHS-US) : Avoid breathing spray, mist.
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 eye protection, protective clothing, 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, a POISON CENTER.
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.

2.3. Hazards not otherwise classified

No additional information available

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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 : May cause mild skin irritation.

Section 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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)
Water (not contributing to the hazard classification)	7732-18-5	60 – 85
Trade secret zinc compound (chemical identity withheld as a trade secret)	14643-87-9	15 – 40

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 : 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 : 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 eye 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

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 : Not expected to be a fire/explosion hazard under normal conditions of use.
Explosion hazard : Not expected to be a fire/explosion hazard under normal conditions of use.
Hazardous decomposition products in case of fire : Metallic oxides. Metallic peroxides. Carbon dioxide. Carbon monoxide. 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. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. 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 vapors. Evacuate unnecessary personnel. 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.

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6.2. Methods and material for containment and cleaning up

- For containment : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Keep recovered product for subsequent disposal. Do not allow material to contaminate ground water system.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Gather the product and place it in a spare container that has been suitably labeled.

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 : Wear personal protective equipment. Avoid all contact with skin, eyes, or clothing. Do not breathe vapors.
- 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

- Storage conditions : Keep container tightly closed. Store in a dry, cool area. Do not overfill containers and protect them from freezing to prevent rupture.
- Incompatible materials : Strong reducing agents. Strong oxidizing 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.

None

8.2. Exposure controls

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

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Colorless.
- Odor : Slightly acrid.
- Odor threshold : No data available
- pH : ~ 5.2
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : < -15 °C
- Initial boiling point and boiling range : ~ 100 °C (Water)
- Flash point : > 94 °C estimated
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability : No data available
- Vapor pressure : No data available
- Relative vapor density at 20°C : No data available
- Relative density : No data available
- Density : ~ 1.25
- Solubility : Water: completely soluble
- Partition coefficient n-octanol/water (Log Kow) : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosion limits : No data available

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9.2. Other information

Explosive properties : Not expected to be an explosion hazard under normal conditions of use.
VOC content : Negligible.

Section 10: Stability and reactivity

10.1. Reactivity

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

Hazardous polymerization may occur if exposed to high temperature.

10.4. Conditions to avoid

Direct sunlight. No flames, no sparks. Eliminate all sources of ignition. High temperature.

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.

Section 11: Toxicological information

11.1. Information on toxicological effects

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

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified
(Results obtained on a similar product).

Water (7732-18-5)

LD50 oral rat	> 90 ml/kg (Source: FOOD_JOURN)
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Trade secret zinc compound (14643-87-9)

LD50 oral rat	668 mg/kg (based on a similar substance)
LD50 dermal rat	> 2000 mg/kg (based on a similar substance)

Skin corrosion/irritation : Not classified
Not irritating to rabbits on cutaneous application
Non-irritating by in vivo test, corrosive by in vitro test. In vivo test result selected as primary evidence.

Serious eye damage/irritation : Causes serious eye damage.
Corrosive by in vivo and in vitro test methods.

Respiratory or skin sensitization : May cause an allergic skin reaction.
Sensitizing to skin by in vitro test. Similar materials have been shown to be sensitizing in vivo.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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

No additional information available

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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC SALTS), 9, III, MARINE POLLUTANT

UN Number : UN3082

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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 3082 Environmentally hazardous substance, liquid, n.o.s. (zinc salts), 9, III

UN Number : UN3082

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

Primary Hazard Class : 9 - Miscellaneous Dangerous Substances and Articles

Packing Group : PGIII

Hazard labels (IATA) :



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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 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	Trade secret zinc compound	15 – 40%
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

No additional information available

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

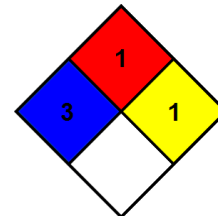
Other information

: 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 : 1
NFPA reactivity : 1



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Hazard System Rating

Health	: 3
Flammability	: 1
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.

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Resin Solutions, LLC
665 Stockton Drive, Suite 100
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Danger

Harmful if swallowed

May cause an allergic skin reaction

Causes serious eye damage

Avoid breathing spray, mist.

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 eye protection, protective clothing, 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, a POISON CENTER.

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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SDS REFERENCE NUMBER: FP00075

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