

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DryWired® Liquid NanoTint Hardener
Recommended Use: Hardener component of thermal insulation coating for glass
Supplier: DryWired®
Address: 5524 Alcoa Avenue
 Vernon, CA 90058
Phone: 1-323-581-8181
Revised On: 09/01/16
Emergency Phone: US: 1-800-535-5053, International: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Hazard classification: Classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

| Health | Environmental | Physical |
|---|---|------------------------------------|
| Eye irritation Respiratory sensitisation Skin sensitisation | Category 2A Category 1 Category 1 | Not applicable. Not applicable. |

GHS Label elements: Signal word: Danger



| Hazard Statements | Precautionary Statements |
|---|---|
| H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. P363 Wash contaminated clothing before reuse. P501 Dispose of contents/ container to an approved waste disposal plant. |

Hazards not otherwise classified: None.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

| INGREDIENT | CAS NUMBER | WEIGHT % |
|----------------------------------|------------|----------|
| Poly(hexamethylene diisocyanate) | 28182-81-2 | 75-85 |
| DBE-5 Dibasic ester | 1119-40-0 | 1-25 |

SECTION 4: FIRST AID MEASURES

Description of first aid measures:

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.



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Indication of any immediate medical attention and special treatment required: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections: For personal protection see section 8. For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific End Uses: No further relevant information available other than the use mentioned in Section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Components with workplace control parameters:

| Component | CAS No. | Value | Control Parameters | Basis | |
|-----------------------------------|----------|--|-------------------------|--|--|
| Hexamethylene diisocyanate | 822-06-0 | TWA | 0.0050 ppm | USA. ACHIS TLV | |
| | | Remarks: Upper Respiratory Tract irritation, Respiratory sensitization | | | |
| | | TWA | 0.0050 ppm, 0.035 mg/m3 | USA. NIOSH Recommended Exposure Limits | |
| | | Remarks: 10 minute ceiling value. | | | |
| | | C | 0.02 ppm, 0.14 mg/m3 | USA. NIOSH Recommended Exposure Limits | |
| Remarks: 10 minute ceiling value. | | | | | |

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------|---------------------|---------------|--------------------|
| Appearance: | Light yellow liquid | Odour: | Odourless |
| Odour Threshold: | No data available. | pH: | No data available. |

| | | | |
|--|--|--|--------------------|
| Melting Point/Freezing Point: | No data available. | Initial Boiling Point/Boiling Point Range: | No data available. |
| Flash Point: | 100.0°C (338.0 °F) | Evaporation Rate: | No data available. |
| Flammability (solid, gas): | No data available. | Upper/Lower Flammability of Explosive Limits: | No data available. |
| Vapour Pressure: | <0.001 hPa at 20°C (68°F) | Vapour Density: | No data available. |
| Relative Density: | 1.130 g/cm ³ at 20 °C (68 °F) | Solubility: | Insoluble. |
| Partition Coefficient: n-octanol and water: | No data available. | Auto-Ignition Temperature: | 370°C |
| Decomposition Temperature: | No data available. | Viscosity: | No data available. |

Other Information: No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible materials: Water, acids, strong bases, strong oxidizing agents, reducing agents, metals, amines, alcohols, surface active materials.

Hazardous decomposition products: No data available. In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Inhalation: No data available.

Dermal: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitisation: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available.

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No data available.

Aspiration hazard: No aspiration toxicity classification

Additional Information: RTECS: Not available. Stomach - irregularities - based on human evidence.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: DBE-5 Dibasic ester: Toxicity to fish static test LC50 - Lepomis macrochirus (Bluegill) - 30.838 mg/l - 96 h

Persistence and degradability: DBE-5 Dibasic ester: Biodegradability Result: >= 60 % - Readily biodegradable. (OECD Test Guideline 301D)

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.



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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

Uncleaned Packaging: Recommendation: Dispose of as unused product according to official regulations.

SECTION 14: TRANSPORT INFORMATION

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|--|--------------------------------------|--------------------------------------|
| <u>DOT (US):</u> Not dangerous goods. | <u>IMDG:</u> Not dangerous goods. | <u>IATA:</u> Not dangerous goods. |
|--|--------------------------------------|--------------------------------------|

SECTION 15: REGULATORY INFORMATION

International Regulations: Contact DryWired® for more information.

US Federal Regulations: Contact DryWired® for more information.

SARA Section 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA Section 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

SARA Section 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

State Regulations: Contact DryWired® for more information.

New Jersey Right To Know Components: Hexane, 1,6-diisocyanato-, homopolymer, CAS-No. 28182-81-2, Revision Date 2007-03-01; Dimethyl glutarate, CAS-No. 1119-40-0.

Pennsylvania Right To Know Components: Hexane, 1,6-diisocyanato-, homopolymer, CAS-No. 28182-81-2, Revision Date 2007-03-01; Dimethyl glutarate, CAS-No. 1119-40-0.

California Proposition 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Inventories:

The components of this product are in compliance with the chemical notification requirements of TSCA. Contact DryWired® for more information.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.

DRYWIREDMAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application.

Given the variety of factors that can affect the use and application of a DryWired® product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the DryWired® product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.