



## Section 1 - Product and Company Identification

<b>Material Name</b>	- <b>Shield &amp; Seal White Roof Coating</b>
<b>Chemical Category</b>	- Paint
<b>Product Code</b>	- DYC890
<b>Product Description</b>	- Roof Coating.
<b>Product Use</b>	- Waterproofing Paint.
<b>Synonyms</b>	- Paint
<b>Manufacturer</b>	- Dyco Paints Inc. 5850 Ulmerton Rd. Clearwater, FL 33760 United States www.suncoatings.com Please use "Contact Us" form on the website
<b>Telephone</b>	813-367-4444
<b>Technical</b>	- 813-248-2101 - Customer Service: 8 AM - 5 PM M-F Eastern Standard Time
<b><u>Emergency</u></b>	- 800-424-9300 - CHEMTREC
<b><u>Emergency</u></b>	- 703-527-3887 - CHEMTREC (Outside US)
<b>Last Revision Date</b>	- 2-2-2015

## Section 2 - Hazards Identification

### GHS HAZARDS AND PRECAUTIONS

#### SIGNAL WORD: WARNING!

*Flammable liquid (paste) and Vapor. Contains Combustible Petroleum Distillates. Harmful or Fatal if swallowed. Keep away from heat, sparks, and open flame. Avoid prolonged breathing of vapor and use only in adequate ventilation. Repeated and prolonged overexposure to solvent vapor may cause brain and nervous system damage, respiratory tract irritation, dizziness, or loss of consciousness. May cause skin and eye irritation.*

<b>Prevention</b>	Avoid breathing dust, fume, gas, mist, vapors and/or spray. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. - No smoking. Use personal protective equipment as required. Keep out of reach of children.
<b>Response</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
<b>Storage/Disposal</b>	Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



<b>Physical Form</b>	- Liquid
<b>Color</b>	- Various
<b>Odor</b>	- Petroleum solvent odor.
<b>Flash Point</b>	- <b>80 F(26.6 C)</b>
<b>OSHA HCS 2012</b>	- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Carcinogenicity - Category 1A

**WHMIS**

- Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A

**GHS**

- R65, R25, R36/37/38, R45
- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Carcinogenicity - Category 1A

**Route Of Entry**

- Inhalation, Skin, Eye, Ingestion/Oral

**Potential Health Effects****Inhalation****Acute (Immediate)**

- May cause irritation. Excessive breathing of high vapor concentration can cause possible unconsciousness and even asphyxiation.

**Chronic (Delayed)**

- Refer to other information found in Section 11-Toxicology.

**Skin****Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure to the skin may cause dermatitis.

**Eye****Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may cause irritation.

**Ingestion****Acute (Immediate)**

- May be harmful or fatal if swallowed.

**Chronic (Delayed)**

- Repeated and prolonged exposure may be harmful.

**Carcinogenic Effects**

- This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 - Toxicological Information for more details.

Carcinogenic Effects			
	CAS	IARC	NTP
Titanium Dioxide	13463-67-7	Category 2 – Possible Carcinogen	

**Section 3 - Composition/Information on Ingredients**

Chemical Name	CAS	%(wt)	LD50/LC50	EU R & S Phrases	Other
Acrylic Resin	Proprietary	<20.0%	NDA	NDA	NDA
Aromatic Hydrocarbon	68131-77-1	<18.0%	ORAL (LD50): Acute: 5000 mg/kg [Rat]. 2671 mg/kg [Mouse]	NDA	NDA
Titanium Dioxide	13463-67-7	<15.0%	Oral-rat TDLo:60 gm/kg	NDA	NDA
Poly Isobutene	9003-27-4	<3.0	Acute oral toxicity (LD50): 2000 mg/kg [Rat].	NDA	NDA
Hydrocarbon Resin	64742-16-1	<10.0	Acute oral toxicity (LD50): 2000 mg/kg [Rat].	NDA	NDA
Thermoplastic Rubber	68648-89-5	8.0	Acute oral toxicity (LD50): 2119 mg/kg [Rat].	NDA	NDA
Glycol Ether	110-80-5	<8.0%	ORAL (LD50): Acute: 2.1 mg/kg [Rat]. VAPOR (LC50): Acute: 2000 ppm [Rat].	NDA	NDA
Xylene	1330-20-7	<23.0%	Acute oral toxicity (LD50): 2119 mg/kg [Mouse]. Acute dermal toxicity (LD50): >1700 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50):5000 4 hours [Rat].	NDA	NDA

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

See Section 11 for Toxicological Information.

#### Section 4 - First Aid Measures

- |                   |   |
|-------------------|---|
| <b>Inhalation</b> | - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. Move victim to fresh air. If breathing is difficult, give oxygen.  |
| <b>Skin</b>       | - IF ON SKIN: Wash with plenty of soap and water. If irritation develops and persists, get medical attention.   |
| <b>Eye</b>        | - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.        |
| <b>Ingestion</b>  | - If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. |

#### Section 5 - Fire Fighting Measures

- |   |   |
|---|---|
| <b>Extinguishing Media</b>                | - LARGE FIRE: Water spray, fog or regular foam.<br>SMALL FIRES: Dry chemical, CO <sub>2</sub> , water spray or regular foam.  |
| <b>Unsuitable Extinguishing Media</b>     | - Do not use direct stream of water.  |
| <b>Firefighting Procedures</b>            | - Fight advanced or massive fires from safe distance or protected location. Avoid water in a straight hose stream as the stream will cause splatter and spread fire. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and are ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. |
| <b>Unusual Fire and Explosion Hazards</b> | - Combustible liquid. May release irritating or toxic gases, fumes, or vapors.  |
| <b>Hazardous Combustion Products</b>      | - Carbon monoxide, carbon dioxide, hydrocarbons.  |
| <b>Protection of Firefighters</b>         | - Firefighters should wear self-contained breathing apparatus and full protective gear.   |
| <b>Flash Point</b>                        | - <b>80°F(26.6°C) CC (Closed Cup)</b>   |
| <b>Explosion Limits</b>                   |   |
| <b>Upper</b>                              | - 6 %   |
| <b>Lower</b>                              | - .9 %  |
| <b>Autoignition Temperature</b>           | - 860 °F (460 C)  |

#### Section 6 - Accidental Release Measures

- |                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind and Ventilate the area before entry.  |
| <b>Emergency Procedures</b>      | - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can without risk. Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Keep unauthorized personnel away. |
| <b>Environmental Precautions</b> | - Prevent entry into waterways, sewers, basements or confined areas.  |

- Containment/Clean-up Measures** - Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not use water to flush spill area. Use appropriate Personal Protective Equipment (PPE).
- Prohibited Materials** - Avoid contact with strong oxidizing agents.

## Section 7 - Handling and Storage

- Handling** - KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat and ignition sources – No Smoking. Use only with adequate ventilation.
- Storage** - Store in a well-ventilated place. Keep container tightly closed. Keep container/package tightly closed in a cool, well-ventilated place. No open flames, no sparks and no smoking.
- Special Packaging Materials** - No data available
- Incompatible Materials or Ignition Sources** - Avoid contact with strong oxidizing agents and acids.

## Section 8 - Exposure Controls/Personal Protection

### Personal Protective Equipment Pictograms



- Respiratory** - In case of insufficient ventilation, wear suitable respiratory equipment. If listed exposure limits are expected to be exceeded, use approved respiratory protection suitable for the hazard.
- Eye/Face** - Wear ANSI approved safety glasses with side shields or safety goggles.
- Hands** - Wear chemical protective gloves made of Nitrile or Neoprene.
- Skin/Body** - Wear clothing that covers the skin to prevent skin exposure.
- General Industrial Hygiene Considerations** - Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Avoid breathing vapors.
- Engineering Measures/Controls** - Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

Exposure Limits/Guidelines					
	Result	ACGIH	Canada Ontario	OSHA	United States - California
Xylene (1330-20-7)	TWAs	100 mg/m <sup>3</sup> TWA	100 mg/m <sup>3</sup> TWAEV	150 mg/m <sup>3</sup> TWA	100 mg/m <sup>3</sup> PEL
Aromatic Hydrocarbon (64742-95-6)	TWAs	500 ppm -TWA	100 mg/m <sup>3</sup> TWAEV	1000 ppm-TWA	500 ppm -TWA
Glycol Ether (110-80-5)	TWAs	500 ppm-TWA	100 mg/m <sup>3</sup> -TWAEV	200 ppm-TWA	200 ppm - TWA

Exposure Control Notations

### Key to abbreviations

- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

Physical Form - Liquid  
 Appearance/Description - Paint

Color: White		Odor: Petroleum solvent odor.	
Taste: NDA		Odor Threshold: NDA	
Boiling Point:	300 to 400 F(148.8889 to 204.4444 C)	Vapor Pressure:	= 2 mmHg (torr) @ 68 F(20 C)
Melting Point:	NDA	Vapor Density:	= 1 Air=1
Specific Gravity/Relative Density:	= 1.05 Water=1	Evaporation Rate:	NDA
Density:	= 8.80 lbs/gal	VOC (Wt.):	= 4.96 lbs/gal
Bulk Density:	NDA	VOC (Vol.):	< 595 g/L
pH:	NDA	Volatiles (Wt.):	NDA
Water Solubility:	No	Volatiles (Vol.):	= 68.0 %
Solvent Solubility:	Yes	Flash Point:	57° F(13.9°C)
Viscosity:	120 KU	Flash Point Test Type:	CC (Closed Cup)
Coefficient of Water:	NDA	Autoignition:	860 F(460 C)

## Section 10 - Stability and Reactivity

Stability - Stable under normal temperatures and pressures.  
 Hazardous Polymerization - Hazardous polymerization will not occur.  
 Conditions to Avoid - Avoid contact with strong oxidizing agents and flame.  
 Incompatible Materials - Strong oxidizers and acids.  
 Hazardous Decomposition Products - Carbon monoxide, carbon dioxide and hydrocarbons.

## Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Xylene	<23.0%	1330-20-7	Acute oral toxicity (LD50): 2119 mg/kg [Mouse]. Acute dermal toxicity (LD50): >1700 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50):5000 4 hours [Rat].
Aromatic Hydrocarbon	<18.0%	64742-95-6	ORAL (LD50): Acute: 5000 mg/kg [Rat]. 2671 mg/kg [Mouse]
Glycol Ether	<3.0	110-80-5	ORAL (LD50): Acute: 5800 mg/kg [Rat]. 3000 mg/kg [Mouse]. 5340 mg/kg [Rabbit]. VAPOR (LC50): Acute: 50100 mg/m 8 hours [Rat]. 44000 mg/m 4 hours [Mouse].
Poly Isobutene	<3.0	9003-27-4	Acute oral toxicity (LD50): 2000 mg/kg [Rat].
Hydrocarbon Resin	<10.0	64742-16-1	Acute oral toxicity (LD50): 2000 mg/kg [Rat].
Thermoplastic Rubber	8.0	68648-89-5	Acute oral toxicity (LD50): 2119 mg/kg [Rat].
Titanium Dioxide	<15.0%	13463-67-7	Oral-rat TDLo:60 gm/kg

Other Component Information - IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

Other Information - The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation in recent studies. Inhalation studies of high airborne concentrations of

asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

## Section 12 - Ecological Information

<b>Ecological Fate</b>	- No data available.
<b>Persistence/Degradability</b>	- No data available.
<b>Bioaccumulation Potential</b>	- No data available.
<b>Mobility in Soil</b>	- No data available.

## Section 13 - Disposal Considerations

<b>Product</b>	- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
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## Section 14 - Transportation Information

**DOT – Department of Transportation** - UN1263 Pkg. Group 3 Hazard Class 3 Limited Quantity Exemption under 1.2 Gallons.

**TDG Transportation Other Information:** Not Restricted under General Exemption for small container packaging.

**TDG - Canada Transportation of Dangerous Goods:** Liquids; UN1263; Hazard Class: 3; Packing Group: III 1.33 Class 3, Flammable Liquids

**IMO/IMDG –International Maritime Transport** ▪ IMDG Code 2.3.2.5 - exempted from marking, labeling & testing of packages.

**IATA - International Air Transport Association** - LIQUID; UN1263; Hazard Class: 3; Packing Group: III.

## Section 15 - Regulatory Information

<b>SARA Hazard Classifications</b>	- Acute, Chronic
<b>Risk &amp; Safety Phrases</b>	- California PROP 65: This product is known to the State of California to cause cancer or reproductive harm. .

State Right To Know					
Component	CAS	MA	MN	NJ	PA
Acrylic Resin	Proprietary	No	No	No	No
Xylene	1330-20-7	Yes	Yes	Yes	Yes
Aromatic Hydrocarbon	64742-95-6	Yes	Yes	Yes	Yes
Glycol Ether	110-80-5	Yes	Yes	Yes	Yes
Hydrocarbon Resin	64742-16-1	No	No	Yes	Yes
Thermoplastic Rubber	68648-89-5	No	No	Yes	Yes
Poly Isobutene	9003-27-4	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	Yes	Yes	Yes

Inventory			
Component	CAS	EU EINECS	TSCA
Urethane Resin	Proprietary	No	No
Xylene	1330-20-7	Yes	Yes
Aromatic Hydrocarbon	64742-95-6	Yes	Yes
Glycol Ether	110-80-5	Yes	Yes
Hydrocarbon Resin	64742-16-1	No	No
Thermoplastic Rubber	68648-89-5	No	No
Poly Isobutene	9003-27-4	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	Yes

**United States**

Environment

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Urethane Resin	Proprietary	Not Listed
Xylene	1330-20-7	Listed
Aromatic Hydrocarbon	64742-95-6	Listed
Glycol Ether	110-80-5	Listed
Hydrocarbon Resin	64742-16-1	Not Listed
Thermoplastic Rubber	68648-89-5	Not Listed
Poly Isobutene	9003-27-4	Not Listed
Titanium Dioxide	13463-67-7	Not Listed

**Section 16 - Other Information**

**Last Revision Date**

- 05/19/2015

**Prepared By**

- Israel Gutman

**Disclaimer/Statement of Liability**

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