



# Safety Data Sheet

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Crystal Shield™ Clear Roof Coating  
**PRODUCT LINE:** SYNEFFEX™  
**PRODUCT NUMBER:** 3500-RFC  
**MANUFACTURER:** SYNEFFEX, INC.  
**EMERGENCY PHONE:** 1(800) 858-3176 or +1 (720) 452-2650  
**WEBSITE:** www.syneffex.com  
**PRODUCT USE:** PAINT / COATING / LIQUID INSULATION  
**DATE OF PREPARATION:** November 19, 2015

## SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:  
GHS Hazards  
GHS Precautions  
Signal Word:

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>WT/WT %</u>
DIPROPYLENE GLYCOL BUTOXY ETHER	29911-28-2	2.0 – 4.0
N-BUTOXYETHANOL	111-76-2	2.0 – 4.0
OCTYL TRIETHOXY SILANE	35435-21-3	1.0 - 1.5
HYDRO-NM - OXIDE	PROPRIETARY	5.0 – 10.0
STYRENE - ACRYLIC - COPOLYMER	PROPRIETARY	10.0 - 40.0

## SECTION 4: FIRST AID MEASURES

**INHALATION** - Move person to fresh air. If breathing has stopped, administer artificial respiration. Seek medical attention!

**EYE CONTACT** - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

**SKIN CONTACT** - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

**INGESTION** - Do not induce vomiting. This may cause chemical pneumonitis and pulmonary edema. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs. Seek immediate medical attention.

# Safety Data Sheet

## SECTION 5: FIRE FIGHTING MEASURES

THIS MATERIAL IN LIQUID FORM WILL NOT BURN. THE DRIED PAINT FILM MAY BURN IN A FIRE.

Flash Point: > 100 C (>212 F)

LEL:

UEL:

**Extinguishing Media:** Use carbon dioxide (CO<sub>2</sub>), foam, dry chemical, or water spray/water fog extinguishing system.

**Unusual Fire and Explosion Hazards:** Vapors may travel considerable distance by air and become ignited by ignition sources.

**Hazardous Combustion Products:** Oxides of carbon

**Fire Fighting Instructions:** Full protective equipment including self contained breathing apparatus should be used.

**Fire Equipment:** Water spray may not be effective, use fog nozzles

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Spill and Leak Procedure:** Eliminate all ignition sources. Ventilate the area. Use appropriate respirator and protective clothing.

**Small Spills:** Contain spill areas with dikes. Recover spilled material into containers. Absorb remainder with absorbent material.

**Large Spills:** If small spill measures do not contain the spill, notify local authorities and/or the fire department.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid prolonged breathing or contact with product. Keep containers closed when not in use. Do not cut, drill, grind, or weld near containers even when empty. Use non-sparking tools when working around this material.

**Storage Requirements:** Protect from freezing. Keep containers closed when not in use. Keep away from excessive heat, open flames, or sparks.

**Regulatory Requirements:** Consult national, state and local environmental laws.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name/CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Dipropylene Glycol Butoxy Ether / 29911-28-2	Not Listed	Not listed	Not established
n-Butoxyethanol / 111-76-2	The Federal OSHA standard 50 ppm (240 mg/m <sup>3</sup> ) TWA averaged over an 8-hour work shift	The ACGIH limit is 25 ppm (121 mg/m <sup>3</sup> ) TWA averaged over an 8-hour work shift	the NIOSH recommended airborne limit is 5 ppm (24 mg/m <sup>3</sup> ) TWA averaged over a 10-hour work shift. They add the notation "skin" indicating the possibility of cutaneous absorption. The NIOSH IDLH level is 700 ppm

# Safety Data Sheet

Octyl triethoxy silane	Not listed	Not Listed	Not established
Hydro-NM-Oxide / Proprietary	TLV = 10 mg/m3 total dust	TLV = 10 mg/m3 total dust	Not established
Styrene - Acrylic - Copolymer / Proprietary	Not Listed	Not Listed	Not established

**Ventilation:** Exhaust as required to keep exposure below Threshold Limit Values

**Protective Gear:** If ventilation equipment cannot control exposures below the TLV's, wear a properly fitted organic/particulate NIOSH/MSHA approved respirator. Wear rubber or neoprene protective gloves for repeated or prolonged skin contact. Wear safety glasses or face shield for eye protection

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** VISCOUS LIQUID DISPERSION

**PHYSICAL STATE:** LIQUID, MEDIUM VISCOSITY

**VAPOR DENSITY:** HEAVIER THAN AIR

**VAPOR PRESSURE:** 0.40 MMHG@ 20C

**EVAPORATION RATE:** FASTER THAN ETHER

**BOILING RANGE:** 100 TO 229 C

**SPECIFIC GRAVITY (SG):** 1.029

**FORMULA LB/GAL:** 8.57

**% Volume Volatile (VOC):** 69.24

**Lbs VOC/Gallon Solids:** 1.50

**% Organic Solvent:** 5.40

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS

**Incompatibility:** Strong acids or bases.

Strong oxidizing agents

**Hazardous Decomposition:** Oxides of carbon and nitrogen.

Oxides of carbon  
Hazardous polymerization will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Mixture Toxicity

#### Component Toxicity

111-76-2      n-Butoxyethanol  
Oral LD50: 1,300 mg/kg (RAT) Dermal LD50: 2,000 mg/kg (RAT)

#### Routes of Entry:

Inhalation      Skin Contact      Eye Contact      Ingestion

Exposure to this material may affect the following organs:

Blood    Eyes    Kidneys    Liver    Central Nervous System

### Effects of Overexposure

Skin Absorption      Irritant to skin

Short Term Exposure      The substance irritates the eyes, skin, and nasal passages and upper respiratory system. May cause stomach irritation; light sensitivity. This chemical irritates the eyes, skin, and respiratory tract. High exposure causes dizziness, lightheadedness, and unconsciousness. Higher exposures can cause pulmonary

# Safety Data Sheet

edema, a medical emergency that can be delayed for several hours. Exposure could cause central nervous system depression and liver and kidney damage

**Long Term Exposure** Unknown at this time. However this chemical may cause lung problems. Di-n-butyl phthalate may also damage the developing fetus and may also damage the testes (male reproductive glands). The liquid defats the skin. This chemical can break down red blood cells, and cause anemia; effects the haematopoietic system, resulting in blood disorders. It can also damage the liver and kidneys.

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA, or ACGIH. = **NONE**

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Protect environment from spills and releases.  
**Component Ecotoxicity**

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal:** As the US EPA, state, local or other regulatory agency may have jurisdiction over the disposal of your facility's waste, it is incumbent on you, to learn and satisfy all the regulations which effect you. Dispose of in accordance to government regulations. Destroy by liquid incineration by certified environmental service group.

## SECTION 14: TRANSPORT INFORMATION

Protect from freezing.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Paint *- Not required **- Not regulated	Not req*		Not reg**
IATA	Class not regulated - Not regulated for transport by IATA			

## SECTION 15: REGULATORY INFORMATION

Additional regulatory listings where applicable

Hazardous Air Pollutants  
84-74-2 Dibutyl Phthalate 0.69 %

SARA Section 313 Emission Reporting  
29911-28-2 Dipropylene Glycol Butoxy Ether 2.41 %  
111-76-2 n-Butoxyethanol 2.52 %

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
----------------	-------------------	------------------------------

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

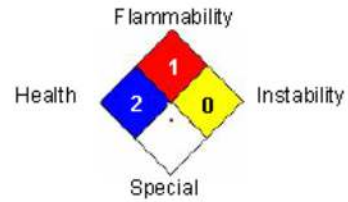
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) . This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

35435-21-3 Octyl triethoxy silane 1.1%  
111-76-2 n-Butoxyethanol 2.5%

# Safety Data Sheet

## SECTION 16: OTHER INFORMATION

<b>HEALTH</b>	<b>2</b>	<b>HMS &amp; NFPA Hazard Rating</b> <b>Legend</b> * = Chronic Health Hazard <b>0 = INSIGNIFICANT</b> <b>1 = SLIGHT</b> <b>2 = MODERATE</b> <b>3 = HIGH</b>
<b>FLAMMABILITY</b>	<b>1</b>	
<b>PHYSICAL HAZARD</b>	<b>0</b>	
<b>PERSONAL PROTECTION</b>	<b>X</b>	



DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED IN THIS SDS IS ACCURATE OR IS OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE. NO LIABILITY, EXPRESSED OR IMPLIED, IS ASSUMED FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. BUYER ASSUMES LIABILITY IN ITS USE OF THIS MATERIAL.