

T.CLEAR HIGH REFLECTIVITY WHITE
ROOF COATING
REVISED 6/18/08
MATERIAL SAFETY DATA SHEET

MANUFACTURERS NAME:
T-CLEAR CORPORATION
3255 Symmes Road
Hamilton, OH 45015

EMERGENCY TELEPHONE NUMBER: 800-544-7398

INFORMATION TELEPHONE NUMBER: 800-544-7398
FAX 513-870-9606

DATE PREPARED: 6/18/08
BY: John J. Wauchope

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NUMBER: T-CLEAR WHITE II
PRODUCT NAME: T.CLEAR HIGH REFLECTIVITY WHITE
PRODUCT CLASS: WATERBORNE ACRYLIC COATING

SECTION 2 –CHEMICAL CONSTITUENTS

COMPONENT INFORMATION	CAS NUMBER	WGT %	VAPOR PRESSURE mmHg @ 20°C	EXPOSURE LIMITS			
				<u>OSHA</u>		<u>ACGIH</u>	
				TWA	STEL	TWA	STEL
ACRYLIC POLYMERS	N.A.	24-26%	N.A.	NONE	NONE	NONE	NONE
WATER	7732-18-5	45-47%	17.5	NONE	NONE	NONE	NONE
TEXANOL	25265-77-4	1.8%	1.0 @189°F	NOT ESTABLISHED			
PROPYLENE GLYCOL	57-55-6	2.0%	0.129 @77°F	TWA: 10 (mg/m3) from AIHA			
AMMONIA	7664-41-7	0.1 MAX		NONE	NONE	25 PPM	25 PPM
INERT PIGMENTS	N.A.	27-28%	N.A.	OSHA PEL 15 MG/M3 – TOTAL DUST OSHA PEL 5 MG/M3 – TOTAL RESPIRABLE ACGIH TWA 0.5 MG/M3			

SECTION 3 – HEALTH HAZARD

PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin Contact

EFFECTS OF OVEREXPOSURE:

Eyes-Irritation and redness, tearing or blurred vision

Skin- Irritation possible from prolonged exposure

Inhalation - Nasal irritation, headache, dizziness, nausea, weakness or vomiting.

Ingestion: Irritation of mouth, pharynx, esophagus and stomach.

MEDICAL CONDITIONS PRONE TO AGGRIVATION BY EXPOSURE: None

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SECTION 4 – FIRST AID**

EMERGENCY AND FIRST AID PROCEDURES:

Eyes- Flush with water for 15 minutes. If irritation persist, seek medical attention.

Skin- Thoroughly wash exposed area with soap and water. Remove contaminated clothing. If irritation persist, seek medical attention.

Inhalation- Move subject to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

Ingestion- Do not induce vomiting, keep person warm and quiet. Get medical attention.

SECTION 5 – FIRE AND EXPLOSION RISK

FLAMMABILITY CLASSIFICATION: Combustible Liquid - Class IIIB

FLASH POINT: >200°F Method: Pensky-Martin Closed

Lower Explosive Limit (L.E.L.): Unknown

Upper Explosive Limit (U.E.L.): Unknown

Autoignition Temperature: No Data

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water fog, halogenated agents

UNUSUAL FIRE AND EXPLOSIONS HAZARDS:

Containers may deform or explode when expose to extreme heat. Decomposition products may yield oxides of carbon and nitrogen. Water may be used to cool containers to prevent pressure build –up and possible auto-ignition or explosion when exposed to extreme heat.

SPECIAL FIRE FIGHTING PRECAUTIONS:

Self-contained breathing apparatus with full facepiece operated in a pressure demand or other positive pressure mode.

NOTE! This product is a waterborne dispersion and under normal operating risk presents minimal risk of fire or explosion. However, proper storage, handling and use practices should be used at all times.

SECTION 6- ACCIDENTAL RELEASE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED;

Refer to sections 3, 4, 5, 7, 8 and 10. Contain liquid in absorbent material and prevent spreading to ground water. Isolate release from all sources of ignition or electrical power. Soak up material with absorbent and shovel into proper waste container. Use non-spark shovel in area where flammable materials may be present. Always wear skin, eye and respiratory protection during cleanup.

WASTE DISPOSAL METHOD;

Destroy by liquid incineration in accordance with applicable regulations. Contaminated absorbent may be deposited in a landfill in accordance with local, state, and federal regulations.

SECTION 7 - HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN STORAGE: Protect from freezing. Do not store at temperatures below 40°F/5 °C or above 120°F/49 °C.

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PRECAUTIONS TO BE TAKEN IN HANDLING: Containers of this material may be hazardous when emptied, since emptied containers retain product residuals (vapor, liquid, and/or solid), all hazard precautions in this data sheet must be observed. Avoid breathing vapors or aerosols. Prevent skin and eye contact.

SECTION 8 – PERSONAL PROTECTION

RESPIRATORY PROTECTION:

If TLV of the product or any component is exceeded, a NIOSH/MSHA certified air supplied respirator is advised in absence of environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (see your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION:

Provide sufficient mechanical (general and / or local exhaust) ventilation to maintain exposure below TLV (s).

PROTECTIVE GLOVES;

Impervious gloves suggested for handling material.

EYE PROTECTION: Wear safety glasses meeting specification of ANSI Z87.1 or equivalent. OSHA approved chemical splash goggles. (consult your safety equipment supplier) Eyes wash station and safety shower recommended in work area.

OTHER PROTECTIVE EQUIPMENT:

Prevent repeated or prolonged skin contact with GB protective handcream, wear impervious clothing and chemical resistant boots.

HYGIENIC PRACTICES;

Wash hands before eating or using rest room.

OTHER PRECAUTIONS;

Paint and solvents have been linked to liver abnormalities, kidney and lung damage. Although this coating is a waterborne of low toxicity, follow precautions of this material safety data sheet to prevent overexposure.

SECTION 9 - PHYSICAL DATA & CHEMICAL PROPERTIES

Appearance: Opaque Thick coating

Color: White

State: Liquid

Odor: Slight Amine

pH: 8.5-9.0

Viscosity: 10-15,000 cps

Specific Gravity: 1.2

Weight per Gallon: 10

Boiling Range: 212°F - 471°F

Vapor Density: Heavier than air

Solubility: Dilutable

Evaporation Rate: Faster than water

VOC Coating less water: 116g/l (0.97 lbs/gal)

VOC Material: 49 g/l (0.41 lbs/gal)

% Non-Volatile by Weight 48-49%

% Non-Volatile Volume: 37-38%

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SECTION 10 – STABILITY AND REACTIVITY DATA**

STABILITY: Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur normal conditions of use and storage.

CONDITIONS TO AVOID: Extreme temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contamination with alkalis, acids and strong oxidizers.

SECTION 11 – TOXICOLOGICAL INFORMATION

This product does not contain any reportable levels of suspected carcinogens per the following sources: OSHA, NTP, IARC, AND CAL/OSHA

SECTION 12 – ECOLOGICAL INFORMATION

None available.

SECTION 13 – DISPOSAL INFORMATION

Dispose of all waste in accordance with all applicable federal, state and local regulations. Incineration is suggested for waste materials that cannot be recycled. Empty drums and containers from this material should not exhibit any RCRA characteristics of hazardous waste as defined in 40CFR 261. Check with local disposal facilities of testing required before disposal of non-recyclable empty containers.

SECTION 14 – TRANSPORTATION INFORMATION

Not regulated by DOT as a hazardous material per title 49 code of federal regulations.

SECTION 15 – REGULATORY INFORMATION

SARA III - Section 313 of the emergency planning and community right to-know act requires reporting of uses of certain chemicals. For further information on your reporting requirements, consult your supplier or appropriate regulatory agency. The following items in this product are listed by the USEPA:

None

CALIFORNIA PROPOSITION 65: No regulated compounds identified.

Toxic Substance Control Act (TSCA):

All ingredients are on the TSCA Chemical Substance Inventory.

CERCLA Information: Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act. (CERCLA) or to state and local emergency planning committee under Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

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South Coast Air Quality Management District – Rule 1113 Information

Category: Roof Coating - Use only for intended and specified use.

Coating VOC: 116 grams VOC per liter of coating less water

Material VOC: 49 grams VOC per liter of coating

Solids Content: 4.95 Pounds Solids per gallon as supplied

Lb. VOC per Lb. Solids: 0.04 lb. VOC per lb. Solids

Use water only as needed to reduce to spray.

SECTION 16 – ADDITIONAL INFORMATION

Although this a waterborne coating material it contains small amounts of organic solvents and material and should be used in accordance with all applicable provisions of the OSHA Hazard Communication Standard (29CFR1910.1200) User should review their application and assure proper use and personal protective equipment according to their individual application.

Based on review of available product information the following NFPA and HMIS ratings have been assigned:

NFPA Rating:

Toxicity: 1
Fire: 0
Reactivity: 0
Special: 0

HMIS Rating:

Health: 1
Flammability: 0
Reactivity: 0
**Personal Protective
Equipment: X****

0 = Insignificant Hazard
1 = Slight Hazard
2 = Moderate Hazard
3 = High Hazard
4 = Extreme Hazard

0 = Minimal Hazard
1 = Slight Hazard
2 = Moderate Hazard
3 = Serious Hazard
4 = Severe Hazard

* Chronic health hazard

** End User should determine rating at point of use

The information contained herein this material safety data sheet is based on data considered to be true and accurate. T-Clear Corporation makes no warranties, expressed or implied, as to the accuracy and adequacy of this data or the results to be obtained from the use thereof. This data is offered solely for the user's consideration, investigation and verification. T-Clear Corporation assumes no responsibility for personal injury or property damage to vendees, users of third parties caused by the material. Such vendees or users assume all risk associated with use of this material.

PREPARED BY: John J. Wauchope, Chemist

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