

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **NANSULATE®** – *Crystal, clear protective roof coating*

SUPPLIER: INDUSTRIAL NANOTECH INC.
1925 TRADE CENTER WAY – SUITE 1
NAPLES, FLORIDA 34109

EMERGENCY PHONE: **1(800)767-3998**
FAX PHONE: 1(239)254-1381

PRODUCT USE: PAINT / COATING / LIQUID INSULATION
PREPARED BY: FRANCESCA CROLLEY – REV / 01/01/2012

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	WT/ WT %
DIPROPYLENE - GLYCOL - MONOBUTYL - ETHER	29911-28-2	2.0 – 5.0
STYRENE – ACRYLIC - COPOLYMER	PROPRIETARY	10.0 – 30.0
HYDRO-NM - OXIDE	PROPRIETARY	1.0 – 10.0

ITEM	ACGIH		OSHA		COMPANY	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	
01	N.E.	N.E.	N.E.	N.E.	N.E.	NO
02	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUSES EYE IRRITATION.

ACUTE EFFECTS - EYE CONTACT: Irritating, but will not permanently injure eye tissue.

ACUTE EFFECTS - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated skin contact may cause irritation.

ACUTE EFFECTS - INHALATION: Prolonged overexposure may cause headaches and dizziness.

ACUTE EFFECTS - INGESTION: May cause nausea and vomiting. Material aspirated into lungs may cause serious injury.

CHRONIC OVEREXPOSURE EFFECTS: No information.

OTHER INFORMATION: No information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT,

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: If symptoms occur, remove to fresh air. Medical personnel may administer oxygen if breathing is difficult. Seek medical attention if symptoms persist.

INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get immediate medical attention.

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NOTES TO PHYSICIAN: No information.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: N/A

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: N/A - water based, does not burn

UNUSUAL FIRE AND EXPLOSION HAZARDS: Does not burn.

SPECIAL FIREFIGHTING PROCEDURES: Does not burn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim clean material. Contaminated material should be absorbed with inert material, such as clay, and swept or shoveled into appropriate waste container and disposed of in accordance with applicable federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid contact with skin and eyes.

STORAGE: KEEP FROM FREEZING. IDEAL TEMP RANGE = 40F TO 90F MAX.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation usually adequate.

RESPIRATORY PROTECTION: None normally required under general ventilation. If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use NIOSH-approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SKIN PROTECTION: Clean clothing to cover skin. Cloth or synthetic gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower.

HYGIENIC PRACTICES: Follow good general industrial safety practices during use. Do not smoke or eat during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 447 - 447 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Nondescript	ODOR THRESHOLD	: No data
APPEARANCE	: White	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H ₂ O	: Appreciable	SPECIFIC GRAVITY:	0.9980
FREEZE POINT	: Appr 0 degC	pH @ 100.0 %	: 6-8
VAPOR PRESSURE	: 17.5mmHg@20degC	VISCOSITY	: Low
PHYSICAL STATE	: Liquid		
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data			
(See Section 16 for abbreviation legend)			

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SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID: No information.

INCOMPATIBILITY: Strong bases or oxidants.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY IARC OR NTP AND IS NOT REGULATED AS A CARCINOGEN BY OSHA.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NO DATA AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: REVIEW ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING HEALTH AND DISPOSAL FOR APPROPRIATE PROCEDURES. PRODUCT DISPOSED OF IN "AS SOLD CONDITION" IS NOT A HAZARDOUS WASTE UNDER FEDERAL RCRA REGULATIONS. LANDFILLING OF FREE LIQUID IS NOT RECOMMENDED.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS: N/A

UN/NA NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

INTERNATIONAL SHIPPING NAME: Not considered a dangerous good for transport

INTERNATIONAL ID NUMBER: N/A

IMDG CLASS (1',2''): N/A **IMDG PAGE NUMBER:** N/A

IMDG EMS: N/A **IATA CLASS (1',2''):** N/A

SECTION 15: REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:
IMMEDIATE HEALTH HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
Dipropylene glycol monobutyl ether	29911-28-2	5.0-10.0

TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: none

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information.

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COMPONENT RCRA CLASSIFICATIONS: No information.
COMPONENT RCRA CODES: No information.
CERCLA RQ VALUE (MINIMUM): No information.

SECTION 16: OTHER INFORMATION

HMIS RATINGS: HEALTH -1, FLAMMABILITY - 0, REACTIVITY - 0

VOLATILE ORGANIC COMPOUNDS (VOCS): 100 GRAMS/LTR (CALCULATED)

LEGEND: N.A. - No information, N.E. - Not Established, N.D. - Not Determined

ABBREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = US Occupational Health and Safety Administration; UK = United Kingdom; TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs); STEL = Short-Term Exposure Limit (15 min); C = Ceiling Value; PEL = Permissible Exposure Limit

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