



# Material Safety Data Sheet



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** EPX4 (Part B)  
**PRODUCT LINE:** INI Heat Shield  
**PRODUCT NUMBER:** HS-EPX4-A  
**MANUFACTURER:** INDUSTRIAL NANOTECH INC.  
 1925 TRADE CENTER WAY, SUITE 1  
 NAPLES, FLORIDA 34109  
**EMERGENCY PHONE:** 1(800) 767-3998 or 1 (239) 254-0346  
**FAX PHONE:** 1(239) 254-1381  
**WEBSITE:** www.industrial-nanotech.com  
**PRODUCT USE:** PAINT / COATING / LIQUID INSULATION  
**DATE OF PREPARATION:** APRIL 8, 2015

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	WT/ WT %	UNITS	VAPOR PRESSURE
2-PROPOXYETHANOL	2807-30-9	8.0 - 10.0 ACGIH TLV OSHA PEL	not available not available	1.3 mm
EPOXY RESIN	PROPRIETARY	34.0 - 39.0 ACGIH TLV OSHA PEL	not available not available	
QUARTZ	14808-60-7	0.5 – 0.8 ACGIH TLV OSHA PEL	0.025 mg/m3 as Resp. Dust 0.1 mg/m3 as Resp. Dust	
CRISTOBALITE	14464-46-1	7.0-10.0 ACGIH TLV OSHA PEL	0.025 mg/m3 as Resp. Dust 0.05 mg/m3 as Resp. Dust	

## SECTION 3: HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE:** EYE CONTACT, SKIN CONTACT, INHALATION

HMIS Codes

**EFFECTS OF OVEREXPOSURE:**

**EYES:** MAY CAUSE EYE IRRITATION

**SKIN:** PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION

**INHALATION:** IRRITATION OF THE UPPER RESPIRATORY SYSTEM

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** MAY CAUSE ALLERGIC SKIN REACTION IN SUSCEPTIBLE PERSONS OR SKIN SENSITIZATION.

**CANCER INFORMATION:** REFER TO SECTION 11 FOR TOXICOLOGY DATA

Health	2*
Flammability	0
Reactivity	0

## SECTION 4: FIRST AID MEASURES

**EYES:** FLUSH EYE WITH WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION

# Material Safety Data Sheet



**SKIN:** WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF SYMPTOMS OCCUR. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE RE-USE.

**INGESTION:** IF SWALLOWED, DO NOT INDUCE VOMITING. CALL POISON CONTROL & SEEK IMMEDIATE MEDICAL ATTENTION

**INHALATION:** IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET.

## SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT**  
> 200 DEG. F. (>93 DEG. C.)

**LEL**  
Not  
Applicable

**UEL**  
Not  
Applicable

**FLAMMABILITY CLASSIFICATION**  
Not Applicable

**EXTINGUISHING MEDIA:** CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** CLOSED CONTAINERS MAY EXPLODE (DUE TO THE BUILD-UP OF PRESSURE) WHEN EXPOSED TO EXTREME HEAT.

DURING EMERGENCY CONDITIONS OVER EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

**SPECIAL FIRE FIGHTING PROCEDURES:** FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. REMOVE WITH INERT ABSORBENT. WEAR SKIN, EYE, AND RESPIRATORY PROTECTIVE EQUIPMENT.

## SECTION 7: HANDLING AND STORAGE

**STORAGE CATEGORY:** DOL STORAGE CLASS IIIB

**STORAGE:** KEEP CONTAINER CLOSED WHEN NOT IN USE. TRANSFER ONLY TO APPROVED CONTAINERS WITH COMPLETE AND APPROPRIATE LABELING. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. STORE IN COOL, DRY AREA

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE GUIDELINES:** USE ONLY WITH ADEQUATE VENTILATION. AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPOR AND SPRAY MIST. WASH HANDS AFTER USING. THIS COATING MAY CONTAIN MATERIALS CLASSIFIED AS NUISANCE PARTICULATES (LISTED "AS DUST" IN SECTION 2) WHICH MAY BE PRESENT AT HAZARDOUS LEVELS ONLY DURING SANDING OR ABRADING OF THE DRIED FILM. IF NO SPECIFIC DUSTS ARE LISTED IN SECTION 2, THE APPLICABLE LIMITS FOR NUISANCE DUSTS ARE ACGIH TLV 10 MG/M3 (TOTAL DUST), 3 MG/M3 (RESPIRABLE FRACTION), OSHA PEL 15 MG/M3 (TOTAL DUST), 5 MG/M3 (RESPIRABLE FRACTION).

**VENTILATION:** LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IS THE EXPOSURE TO MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION:** IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION 2. WHEN SANDING OR ABRADING THE DRIED FILM, WEAR A DUST/ MIST RESPIRATOR APPROVED BY NIOSH/MSHA FOR DUST WHICH MAY BE GENERATED FROM THIS PRODUCTS, UNDERLYING PAINT, OR THE ABRASIVE.

**PROTECTIVE GLOVES:** WEAR GLOVES WHICH ARE RECOMMENDED BY GLOVE SUPPLIER FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

**EYE PROTECTION:** WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDE SHIELDS.

**OTHER PROTECTIVE EQUIPMENT:** USE OF BARRIER CREAM ON EXPOSED SKIN IS RECOMMENDED.

# Material Safety Data Sheet



**OTHER PRECAUTIONS:** THIS PRODUCT MUST BE MIXED WITH OTHER COMPONENTS BEFORE USE. BEFORE OPENING THE PACKAGES, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

**WORK HYGIENIC PRACTICES:** WASH THOROUGHLY IMMEDIATELY AFTER HANDLING; PREVENT EYE CONTACT, PROLONGED SKIN CONTACT, AND EXCESSIVE INHALATION.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** WHITE LIQUID

**ODOR:** NONDESCRIPT

**PHYSICAL STATE:** LIQUID, MEDIUM VISCOSITY

**PH:** 9.0

**SPECIFIC GRAVITY:** 1.15

**BOILING POINT:** 212-308F (100-153C)

**MELTING POINT:** NOT AVAILABLE

**VOLATILE VOLUME:** 58%

**EVAPORATION RATE:** SLOWER THAN ETHER

**VAPOR DENSITY:** HEAVIER THAN AIR

**SOLUBILITY IN H2O:** NOT AVAILABLE

**VOLATILE ORGANIC COMPOUNDS (VOC THERORETICAL - AS PACKAGED):**  
1.54 LB/GAL / 185 G/L LESS WATER & FEDERALLY EXEMPT SOLVENTS  
0.80 LB/GAL / 96 G/L EMITTED VOC  
<150 G/L; 1.25 LB/GAL, MIXED

## SECTION 10: STABILITY AND REACTIVITY

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

**CONDITIONS TO AVOID:** NONE KNOWN

**INCOMPATIBILITY:** NONE KNOWN

**HAZARDOUS DECOMPOSITION PRODUCTS:** BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

## SECTION 11: TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS:**  
CRYSTALLINE SILICA (QUARTZ, CRISTOBALITE) IS LISTED BY IARC AND NTP. LONG TERM EXPOSURE TO HIGH LEVELS OF SILICA DUST, WHICH CAN OCCUR ONLY WHEN SANDING OR ABRADING THE DRY FILM, MAY CAUSE LUNG DAMAGE (SILICOSIS) AND POSSIBLY CANCER.

### TOXICOLOGY DATA:

CAS NO.	INGREDIENT NAME	LC50 RAT	LD50 RAT	4HR	NOT AVAILABLE
2807-30-9	2-PROPOXYETHANOL				3090 MG/KG
PROPRIETARY	EPOXY RESIN				NOT AVAILABLE
					NOT AVAILABLE
14808-60-7	QUARTZ				NOT AVAILABLE
					NOT AVAILABLE

# Material Safety Data Sheet



**CAS NO.** 14464-46-1      **INGREDIENT NAME** CRITOBALITE  
LC50 RAT      4HR      NOT AVAILABLE  
LD50 RAT      NOT AVAILABLE

## 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. INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE CLOSED CONTAINER.

## SECTION 14: TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** NOT REGULATED  
**HAZARD CLASS:** N/A  
**ID NUMBER:** N/A

**PACKING GROUP:** N/A  
**LABEL STATEMENT:** N/A

**CANADA (TDG):** NOT REGULATED FOR TRANSPORTATION  
**IMO:** NOT REGULATED FOR TRANSPORTATION  
**IATA/ICAO:** NOT REGULATED FOR TRANSPORTATION

## SECTION 15: REGULATORY INFORMATION

### SARA SECTION 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF  
-----CHEMICAL NAME----- CAS NUMBER      % BY WT  
GLYCOL ETHERS           8.0

**CALIFORNIA PROPOSITION 65:** WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**TSCA CERTIFICATION:** ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE TSCA INVENTORY.

## SECTION 16: OTHER INFORMATION

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

**DISCLAIMER:** TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED IN THIS MSDS 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.