

# SAFETY DATA SHEETS

## NP865IT, High Performance Aromatic Polyurethane Coating

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME/CODE:** NP865IT

**MANUFACTURER:** National Polymers Inc.  
**STREET ADDRESS:** 9 Guttman Avenue  
**CITY, STATE, ZIP:** Charleroi, Pa. 15022

**INFORMATION PHONE:** 724-483-9300    **EMERGENCY PHONE:** Chemtrec 800-424-9300    **FAX PHONE:** 724-483-9306

**PREPARED BY:** Harry Jackson  
**DATE REVISED:** 4/26/19

**Chemical Name or Class:** Aromatic Urethane Pre-polymer mixture

### SECTION 2: HAZARDS IDENTIFICATION

#### Hazard Overview

**GHS Classification:** Flammable liquid category 3, Specific target organ toxicity single exposure category 3, Specific target organ toxicity following repeated exposure category 1, Skin corrosion/irritation category 2, Toxic to reproduction category 2, Germ cell Mutagenicity category 1B, Serious Eye damage/Irritation Category 2B, Carcinogenicity category 1a, Acute hazard to aquatic environment category 3, Chronic hazards to aquatic environment category 3

#### GHS Label Elements and Precautionary Statements:

**Label Elements:** Flame, Health Hazard Exclamation Mark



#### Hazard Statements:

Warning: Flammable Liquid and Vapour.  
Warning: May cause respiratory irritation.  
Danger: Causes damage to organs through prolonged or repeated exposure.  
Warning: Causes skin irritation.  
Warning: Suspected of damaging fertility or the unborn child.  
Danger: May cause genetic defects.  
Warning: Causes eye irritation.  
Danger: May cause cancer.  
Harmful to aquatic life  
Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P102 Keep out of reach of children.  
P103 Read label before use  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/...equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.

#### Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.  
P370 + P378 In case of fire: Use **ALCOHOL FOAM, CO2, DRY CHEMICAL** for extinction  
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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P314 Get medical advice/attention if you feel unwell.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state federal or international laws

### HMIS HAZARD CLASSIFICATION

HEALTH: 2      FLAMMIBILITY: 2      REACTIVITY: 1      PERSONAL PROTECTIVE EQUIPMENT: G

### POTENTIAL HEALTH EFFECTS

#### EYES:

Can cause irritation, redness, tearing, or blurred vision as well as corneal opacity and conjunctivitis

#### SKIN:

May cause irritation, defatting and dermatitis.

#### INGESTION:

Can cause gastrointestinal irritation, nausea, vomiting, diarrhea and aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Can cause corrosive action to mucous membranes and digestive tract.

#### INHALATION:

Can cause nausea and respiratory irritation, dizziness, weakness, fatigue, headache and possible unconsciousness. Burning sensation to mucous membranes, shortness of breath and flu like symptoms may occur. Vapors may cause central nervous system depression.

#### HEALTH HAZARDS (ACUTE AND CHRONIC):

Can cause sensitization by exposure through contact or high concentrations of vapor. Overexposure can possibly cause anemia. Liver abnormalities, kidney damage or eye damage. May cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity and eczema. Chronic Inhalation: as a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV or MGL. These symptoms, which include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed up to several hours after exposure. Similar to many nonspecific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in several years. Chronic overexposure to isocyanates has been reported to cause lung damage, including decrease in lung function, which may be permanent. Sensitization may either be temporary or permanent. Acute skin Contact: Isocyanates react with the skin protein and moisture and can cause irritation. Symptoms of skin irritation may be reddening, swelling, rash, scaling, or blistering. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove.

Chronic Skin contact: Prolonged contact with the isocyanate can cause reddening, swelling, rash, scaling, or blistering. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor-only exposure.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

#### RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

#### CARCINOGENICITY

OSHA: yes      NTP: yes      IARC: yes

#### ADDITIONAL CARCINOGENICITY INFORMATION:

IARC has determined that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1- carcinogenic to humans). The NTP classifies respirable crystalline silica as reasonably anticipated to be a carcinogen. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B).

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
*Residual Toluene diisocyanate	26471-62-5	0.005ppm	NONE	NONE	<0.05
Aromatic Hydrocarbon Solvent	64742-95-6	50PPM	100PPM	NONE	10-30
Aliphatic hydrocarbon solvent	not known	NONE	NONE	NONE	5-10
Aromatic Urethane prepolymer	not established	NONE	NONE	NONE	30-60
*Crystalline silica (quartz)	14808-60-7	0.05mg/m3	.1mg/m3	.1mg/m3	<1.0
Titanium dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	5-10

#### SECTION 3 NOTES:

\*\*\* Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

**Note:** Ingredients listed without percentages, the percentages are considered a trade secret. Information concerning non-hazardous ingredients are considered a trade secret.

### SECTION 4: FIRST AID MEASURES

#### EYES:

Flush eyes with water for at least fifteen minutes and consult a physician.

#### SKIN:

For extreme exposure use a safety shower immediately. Wash affected skin with soap and water and remove all contaminated clothing promptly. Get medical attention if any discomfort continues.

#### INGESTION:

Do not induce vomiting, keep person warm and consult a physician immediately. Give 1-2 cups of milk or water to drink.

#### INHALATION:

Remove victim to fresh air and administer oxygen if necessary. Obtain medical assistance. Asthmatic type symptoms may occur immediately or be delayed for several hours. Treatment is symptomatic.

#### NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

This product contains aromatic and aliphatic hydrocarbon solvents and aromatic isocyanate.

### SECTION 5: FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR,**  
(% by volume)

**UPPER: 7 percent**  
**LOWER: 1 percent**

**FLASH POINT: 110F**

**METHOD USED:**

TCC Flame

**EXTINGUISHING MEDIA:**

FOAM, ALCOHOL FOAM, CO<sub>2</sub>, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:**

Do not enter confined fire area without full bunker gear including a positive pressure niosh approved self-contained breathing apparatus. Presence of solvents in products may require grounding. Remove all sources of ignition.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

If fire occurs, solvents may produce excessive pressure. Sealed drums may rupture and ignite. Vapors are heavier than air and may travel along the ground and ignite by any source of ignition. During a fire, TDL vapors and other toxic gasses may be evolved such as CO, CO<sub>2</sub>, N<sub>2</sub>O, HCN unburned hydrocarbons, and toxic fumes.

### SECTION 6: RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Personnel Safeguards:** Immediately evacuate all non-essential personnel to safe places. Emergency responders should wear positive pressure supplied air respirator with full face piece and proper protective gear before entering the affected area.

**Regulatory Notifications:** Waste of this product is defined as hazardous according to U.S. EPA. Spill reporting requirements and reportable quantities vary by region. Consult all applicable state and local regulations. For Canada, observe all precautions noted above. **Containment and Clean-up:** Remove all sources of ignition. Provide ventilation. Respiratory protection is recommended during spill clean-up. Stop leak if possible without risk. Prevent liquids from entering sewers, drains or waterways by diking with sand or earth. Absorb with vermiculite or other absorbent material, then flush area with decontamination solution. Put in open drums. Treat and clean with decontamination solution consisting of water containing 4-8% ammonia and 2% detergent.

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### SECTION 7: HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the SDS's of all the components prior to using material. Properly label all containers. Keep material away from all sources of ignition. Wear appropriate safety equipment and protective clothing.

#### OTHER PRECAUTIONS:

Contaminated leather articles cannot be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof. Observe OSHA regulations for respirator use (29 CFR 1910.134). Provide good ventilation. Avoid prolonged contact with the skin. Air circulations and exhaustion of isocyanate or solvent vapors must be maintained until the coatings have fully cured to insure that no potential fire, explosion or health hazard remains. Use solvent resistant gloves. Avoid rubbing eyes while handling. Respiratory caution to be taken if the cured product is ground or sanded as this may generate hazardous dusts.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### RESPIRATORY PROTECTION:

Use a NIOSH approved respirator as required to prevent over exposure to vapor in accordance with 29 CFR 1910.134. Engineering or administrative measures should be taken to reduce the risk and exposure. Use a positive pressure supplied air respirator when exceeding TLV's or if TDI monomer concentrations exceed acceptable limits of when spraying material.

#### VENTILATION:

Exhaust ventilation sufficient to keep airborne concentrations of TDI below their TLV and MGL maximum. Refer to patty's industrial hygiene and toxicology – volume 1 (3<sup>rd</sup> edition) chapter 17 and volume iii (1<sup>st</sup> edition) chapter 3 for details

#### PROTECTIVE GLOVES:

Impervious gloves – neoprene or rubber

#### EYE PROTECTION:

Splash goggles or glasses with side shields. Do not wear contact lenses when using this product.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.

#### WORK HYGIENIC PRACTICES:

Observe good general hygienic practices.

Exposure Limits and Guidelines Component	CAS No.	Exposure Limit
Quartz (respirable)	14808-60-7	0.05 mg/m <sup>3</sup> TWA, NIOSH
Toluene diisocyanate	26471-62-5	0.005ppm OSHA PEL
Aromatic hydrocarbon solvent	64742-95-6	100ppm ACGIH TWA

#### SEE SECTION THREE FOR ADDITIONAL OCCUPATIONAL EXPOSURE LIMIT VALUES.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** High viscosity colored liquid with typical solvent odor.

**BOILING POINT OR RANGE:** 320 to 486 F

**VAPOR DENSITY (AIR = 1):** Not Determined

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.18

**EVAPORATION RATE:** Not Determined

**SOLUBILITY IN WATER:** Negligible

**Odor Threshold:** Not Determined

**pH:** Not Applicable

**Melting point/freezing point:** Not determined

**Vapor Pressure:** Not determined

**Auto Ignition Temperature:** Not determined

**Partition Coefficient: n-octanol/water:** Not determined

**Decomposition Temperature:** Not determined

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### SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:**

Stable

**CONDITIONS TO AVOID (STABILITY):**

Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, and static discharges etc.

**INCOMPATIBILITY (MATERIAL TO AVOID):**

Avoid water, strong bases, oxidizing materials, alkalai mateials.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**

May form toxic chemicals, carbon dioxide, carbon monoxide, oxides of nitrogen, HCN and HDI

**HAZARDOUS POLYMERIZATION:**

Moisture of materials that react with isocyanates and temperatures above 400 degrees F may cause polymerization.

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### SECTION 11: TOXICOLOGICAL INFORMATION

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**Primary Eye Irritation:** Irritating

**Primary Skin Irritation:** Irritating, acute

**Acute Dermal Toxicity:** Not available

**Subacute Dermal Toxicity:**Not available

**Dermal Sensitization:** Not available

**Inhalation Toxicity:** Not available

**Inhalation Sensitization:** Not available

**Oral Toxicity:** Mutagenicity: Not available

**Carcinogenicity:** Diisocyanates are suspect carcinogens. When ingested, diisocyanates have caused cancer in certain animals.

Crystalline silica is a carcinogen, listed as Human Carcinogen Category 1 in IARC. California Proposition 65 Chemicals and NIOSH also list respirable crystalline silica as carcinogenic. Keep it below 0.05 mg/m<sup>3</sup>.

**Reproductive Toxicity:** Not available

**Teratogenicity:** Not available

**Immunotoxicity:** Not available

**Neurotoxicity:** Not available

**No other toxicological information available**

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### SECTION 12: ECOLOGICAL INFORMATION

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**Aquatic Toxicity:** Not known.

**Terrestrial Toxicity:** Not known

**Chemical Fate and Transport:** Not known.

**No other ecological information available**

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### SECTION 13: WASTE DISPOSAL

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**WASTE DISPOSAL METHOD:** DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACORDANE WITH LOCAL, STATE, AND FEDERAL LAW.

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### SECTION 14: Transport Information

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**DOT:** UN1263, Paint (CONTAINS aromatic hydrocarbon solvent, 3, PG III

**Other:** Not regulated for non-bulk domestic ground shipments for packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150 (f)).

**IMO/MDG:** UN1263, Paint (CONTAINS aromatic hydrocarbon solvent), 3, PG III

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### SECTION 15: REGULATORY INFORMATION

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#### Regulatory Lists

**U.S. TSCA Inventory:** All components of this material are on the US TSCA Inventory or exempt from listing on the TSCA Inventory.

**SARA 311/312 Categories**

**Acute:** Yes **Chronic:** Yes **Fire:** Yes **Pressure:** Yes **Reactive:** Yes

This product contains the following Sara, Title III, Section 313 Chemicals:

**Toluene Diisocyanate** CAS# 26471-62-5

**Quartz** CAS# 14808-60-7

**Titanium Dioxide** CAS# 13463-67-7

**Regulatory List for State:** FL, MA, MN, PA, RI

**California Proposition 65 Information: Warning!** This product contains detectable components, including the following components, which are substances or belong to classes of substances known to the State of California to cause cancer, birth defects and/or other reproductive harm.

**Toluene Diisocyanate** CAS# 26471-62-5

**Quartz** CAS# 14808-60-7

**Titanium Dioxide** CAS# 13463-67-7

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#### Canadian Regulations

**DSL/NDSL:** The components of this product are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substance List (NDSL).

**WHMIS Hazard Class:** B3 D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**Other Regulations:** No other information available

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### SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

**N/A = Not Available** See Section 1 for date of preparation