

Section 1. Product and Company Identification

Product Name: 103-P
Supplier: NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992
Emergency Phone Number: 800-535-5053
Product Description: White powder with black specs
Product Use: Accelerates cure time of some thermo setting sealants
Chemical Name or Synonym: N/A

Section 2. Hazards Identification

Classification of the substance or mixture:

Skin Sensitization – Category 1
Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2B
Specific Target Organ Toxicity (Single Exposure) – (Respiratory tract irritation) – Category 3
Specific Target Organ Toxicity (Repeated Exposure) (Oral, Urinary organs, kidneys) – Category 1
Flammable Solid – Category 2

Label Elements:



Hazard Statements:

H228 Flammable Solid
H317 May cause an allergic skin reaction.
H315 / 320 Causes Skin and Eye Irritation
H335 May cause respiratory irritation
H372 causes damage to organs through prolonged or repeated use.

Signal Word: Danger

Precautionary Statement:

P261 Avoid breathing dust and vapors
P262 Do not get in eyes, on skin, or on clothing
P285 In case of inadequate ventilation wear respiratory protection
P281 Use personal protective equipment as required
P301/P310 If Swallowed: Immediately call a Poison Center or Physician
P333/P313 If skin irritation or rash develops: Get medical attention.
P302/P352 If on skin: Wash with plenty of soap and water
P305/P351/P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses. Continue Rinsing.
P337/P313 If eye irritation persists: Get medical attention
P342/P311 If experiencing respiratory symptoms: Get medical attention.
P233 Keep container tightly closed
P210 Keep away from open flames. – No Smoking
P501 Dispose of observing all Federal, State and Local regulations

Section 3. Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight %
Hexamethylenetetramine	100-97-0	70-100

Section 4.

First Aid Measures for Accidental:

Ingestion: DO NOT INGEST. Wash mouth out with water. Remove dentures if any. Do not induce vomiting unless directed to do so by a physician. If vomiting occurs the head should be kept low so the vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious place in a recovery position and get medical help immediately. If person is conscious give small amount of water to drink. Stop if the person feels sick as vomiting may be dangerous. Call a physician or get medical help immediately after exposure or if feeling unwell.

Inhalation: Remove to fresh air. If symptoms persist, seek medical attention. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous for the person providing aid to give mouth to mouth resuscitation. If unconscious place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin Contact: Flush contaminated skin with plenty of soap and water, remove contaminated shoes and clothing. Wash contaminated clothing thoroughly with water before removing it or wear gloves. Consult physician if symptoms develop.

Eye Contact: Flush with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If symptoms persist, seek medical attention.

Note to Physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protection of First Aid Personnel: No action shall be taken involving personal risk or without suitable training. If it is suspected that fumes are still in the area the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous for the person providing aid to give mouth to mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves.

Section 5. Fire Fighting Measures

Extinguishing Media: Foam, Dry Chemical, Carbon Dioxide, Water spray or mist

Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing. should be worn in fighting fires involving chemicals. (Professionally Trained Personnel).

Unusual Fire and Explosion Hazard: Promptly isolate the scene by removing all persons in the vicinity if there is a fire. No action shall be taken involving any person risk without suitable training.

Hazardous Decomposition Materials (Under Fire Conditions): Carbon Oxides, Nitrogen Oxides, Ammonia, Aldehydes (including Formaldehyde), and Hydrogen Cyanide.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Minimize airborne dust and eliminate all fire/ignition sources. Wear proper personal protective equipment. Remove any sources of ignition from the area and allow hot surfaces to cool. Return uncontaminated material to metal container and seal container tightly.

Cleanup and Disposal of Spill: Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust accumulating on surfaces and remove to a chemical disposal area. Vacuums with explosion proof motors should be used. Dispose of contaminated material or waste. Prevent entry into waterways, soil, drains and sewers.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with skin and eyes. Do not breathe vapors. Wear appropriate safety gear as required in work area. Eating, drinking and smoking should be prohibited in areas where this product is being used. Wear appropriate respirator when ventilation is inadequate. High dust concentrations should be avoided. Combustible dusts at sufficient concentrations can form explosive mixtures in with air. Keep away from heat, hot surfaces, sparks, flame or other ignition sources. Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust –accumulating on surfaces and remove to a chemical disposal area. Vacuums with explosion proof motors should be used.

Conditions for safe storage including any incompatibilities: Cool, dry, storage, away from direct sunlight. Store in closed containers. Keep away from incompatible materials (See section 10) and food and drink. Separate from oxidizing materials. Keep containers tightly closed and sealed until ready for use. Keep away from heat, hot surfaces, sparks and flames. Do not store in unlabeled containers.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines: None established.

Appropriate Engineering Controls: Local exhaust if poorly ventilated area or in confined spaces. If dust fumes or mist is generated use process enclosures, local exhaust or other engineering controls to keep workers exposure to airborne contaminants below any recommended or statutory limits. Use explosion proof ventilation equipment.

Personal Protective Equipment:

Respiratory Protection: Use a properly fitted, particulate respirator complying with an approved standard if risk assessment indicates this is necessary. Respirator selections must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

Eye / Face Protection: Safety Glasses with side shields. Full face shield recommended. (during injection process).

Skin Protection: Chemical resistant impervious gloves. Coveralls or other protective clothing.

Additional protective measures: Avoid contact with skin. Wash hands before eating, smoking or using the lavatory. Appropriate techniques should be used for removal of potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Section 9. Physical and Chemical Properties

Physical Appearance:	White powder with black specs
Odor:	Distinct odor
Odor Threshold:	No data available
pH:	8.0
Flash Point:	> 381 °F Method Cleveland Open Cup
Melting Point Range:	Not applicable
Boiling point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	No data available
Flammability Limits:	Not defined for solids
Viscosity:	Not applicable

Water Solubility:	NIL
Solubility in other Solvents:	No data available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	No data available
Specific Gravity:	1.33 (H ₂ O = 1)
Partition Coefficient (n-octanol/water):	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
VOC Content:	None to minimal content

Section 10. Stability and Reactivity

Reactivity: Stable

Chemical Stability: Stable under standard normal conditions.

Possibility of Hazardous reactions: None under normal processing. Hazardous polymerization will not occur by itself.

Conditions to Avoid: Flammable Solid. Fine dust clouds may form explosive mixtures with air. Run off to sewer may create fire or explosion hazard. Combustible Solid that burns. Eliminate all fire/ignition sources including static discharges near product / package. Keep away from heat, hot surfaces, sparks, and flame.

Incompatible Materials / Chemicals: Strong Acids, Strong alkalis, Phenol, Hydrochloric acid, Strong Oxidizers.

Hazardous Decomposition Products: Carbon Oxides, Nitrogen Oxides, Ammonia, Aldehydes (including Formaldehyde) and Hydrogen Cyanide.

Section 11. Toxicological Information

Numerical measures of toxicity: LD50 Oral Rat (dose >20,000 mg/kg) LD50 Dermal Rat (Dose >2,000 mg/kg)

Primary routes of entry: Inhalation and contact

Information in the likely route of exposure:

Potential Acute Health Effects:

Skin: Irritating to skin. May cause sensitization by skin contact. Allergic reaction.

Inhalation: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Eyes: Irritating to eyes.

Ingestion: Not expected to be harmful under normal conditions of use.

Chronic Health Hazard: Causes damage to organs through prolonged or repeated exposure: Once sensitized, a severe allergic reaction may occur when subsequently exposed to lower levels. Repeated exposure may affect oral, urinary organs and kidneys.

Carcinogenicity:

NTP: None

IARC: None

OSHA Regulated: NO

Mutagenicity: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: Redness and irritation, watering, pain.

Skin contact: Irritation and redness.

Inhalation: Adverse symptoms may include: respiratory tract Irritation, coughing, wheezing and breathing difficulties, asthma
Existing Conditions Aggravated by Exposure: Pre-existing respiratory and skin disorders involving any other target organs mentioned in this SDS as being at risk may be aggravated by over-exposure to this product.

Note: Residual formaldehyde gas may be released by this product during processing. The amount and level will depend on local conditions of use. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. OSHA has listed formaldehyde as a potential human carcinogen. IACR has classified formaldehyde as carcinogenic to humans.

Section 12. Ecological Information

Ecotoxicity Effects: No known significant effect or critical hazards.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

Section 13. Disposal Considerations

Waste treatment methods: Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product solutions and by-products should at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements. Certain state regulations could affect whether a material is considered a hazardous waste upon disposal. It must also be noted that a material can become a hazardous waste if it is mixed with or comes in contact with a hazardous substance during use. Under RCRA it is the responsibility of user of a product to determine at the time of disposal, whether a material should be classified as a hazardous waste.

Uncleaned packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

DOT (49 CFR 172)

Proper Shipping Name: Hexamethylenetetramine

UN-Number: UN 1328

Hazard Class: 4.1

Packing Group: III

IATA

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UN-Number: UN 1328

Hazard Class: 4.1

Packing Group: III

Section 15. Regulatory Information

CERCLA HAZARDOUS SUBSTANCES (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product does not contain any SARA 302 Extremely Hazardous Substances.

SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): Certain ingredients of this product are regulated under Sara Title III Section 311/312, see section 3 of this MSDS.

SARA TITLE III SECTION 313 (40 CFR Part 372): None

U.S. INVENTORY (TSCA): Any chemical substances (as defined in 40 CFR Part 710.2), that are contained in, or used in the manufacture of this product, are reported in the EPA TSCA Inventory. (As required per 40 CFR 710.3)

CALIFORNIA PROPOSITION 65: None

CANADA WHMIS: Class B4 Flammable Solid, Class D, Div 2A, 2B Canada NPRI : None Required

EUROPEAN UNION: Hexamethylenetetramine: CLP Skin Sens, 1, Respiratory Sens, 1, Flammable Solid, 2

OZONE DEPLETERS: * This product is not manufactured with or contains any Class I or Class II Ozone Depleting Chemicals. (ODC's)

Section 16. Other Information

Estimated HMIS® Code:

Health Hazard: 2 (See section 11 for chronic effects.)

Flammability Hazard: 3

Physical Hazard: 0

Personal Protection: NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

Procedural Warning:

For industrial use by professionally trained personnel only. When the compound is curing, vapors and gasses are given off and should be vented. Steps should be taken to ensure that the injection pressure in conjunction with pressure that may occur from gassing off does not exceed the pressure limitations of the piping system. Also, be aware it is quite common that the application temperature will exceed the compound flash point. Be aware of the possibility of a flash and take necessary precautions. Avoid contact with skin and eyes. See section 8 of SDS for personal protective equipment. Ventilation may be needed during heating/curing stage to exhaust organic vapors resulting from vaporization of certain organic agents. Always avoid direct contact with smoke and vapors being emitted from the compound during the heating/curing process. These vapors may be irritating to the skin, eyes and respiratory system. Read product technical data and safety information before use.

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

(R0) Revision date: 05.31.18