SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: PLASTIC STEEL PUTTY (A) HARDENER
Manufacturer Name: ITW
Address: 30 Endicott Street
Danvers, MA 01923
General Phone Number: (978) 777-1100
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
MSDS Creation Date: July 19, 2012
MSDS Revision Date: July 19, 2012

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 1 by weight</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>112-24-3</td>
<td>1 - 5 by weight</td>
</tr>
<tr>
<td>Inert material</td>
<td>N/A</td>
<td>5 - 10 by weight</td>
</tr>
<tr>
<td>2-Propenenitrile, reaction products with ethylenediamine, hydrogenated</td>
<td>68909-99-9</td>
<td>10 - 30 by weight</td>
</tr>
</tbody>
</table>

SECTION 3 : HAZARDS IDENTIFICATION

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:

Eye: Corrosive. Will cause eye burns, permanent tissue damage, and blindness.
Skin: Contact causes severe skin irritation and possible burns. May cause permanent skin damage. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
Inhalation: May cause severe respiratory system irritation. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
Ingestion: Harmful if swallowed. Corrosive to the gastrointestinal tract.
Chronic Health Effects: Prolonged skin contact causes burns. Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms: Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes. Vapors may cause respiratory irritation.
Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 : FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious
SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties: Class III B.
Flash Point: >200°F (93.3°C)
Flash Point Method: Tag closed cup (TCC)
Auto Ignition Temperature: Not determined.
Lower Flammable/Explosive Limit: Not determined.
Upper Flammable/Explosive Limit: Not determined.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Unsuitable Media: Water or foam may cause frothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Corrosive. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.

Other Precautions: Pump or shovel to storage/salvage vessels.

SECTION 7: HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin. Do not reuse containers without proper cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Hygiene Practices: Wash thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an
uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Titanium dioxide:
Guideline ACGIH: 10 mg/m³
TLV-TWA: 10 mg/m³
Notes: Only established PEL and TLV values for the ingredients are listed.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste.
Color: White
Odor: Mild ammonia like
Boiling Point: >450°F (232.2°C)
Melting Point: Not determined.
Specific Gravity: 0.98
Solubility: slightly soluble.
Vapor Density: >1
Vapor Pressure: <10 mmHg @70°F
Percent Volatile: 0
Evaporation Rate: <1
Molecular Formula: Mixture
Molecular Weight: Mixture
Flash Point: >200°F (93.3°C)
Flash Point Method: Tag closed cup (TCC)
Auto Ignition Temperature: Not determined.
VOC Content: 0
Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Hazardous Polymerization: Not reported.
Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Product may slowly corrode copper, aluminum, zinc and galvanized surfaces.

SECTION 11: TOXICOLOGICAL INFORMATION

Titanium dioxide:
RTECS Number: XR2275000
Skin: Administration onto the skin - Human: 300 ug/3D (Intermittent)
Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.

Triethylenetetramine:
RTECS Number: YE6650000
Eye: Eye - Rabbit Standard Draize test: 49 mg
Skin: Administration onto the skin - Rabbit LD50: 805 mg/kg [Details of toxic effects not reported other than lethal dose value]
Ingestion: Oral - Rat LD50: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value]

[Further toxicological information for Triethylenetetramine provided]
SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Refer to Bill of Lading
DOT UN Number: Refer to Bill of Lading

SECTION 15: REGULATORY INFORMATION

Titanium dioxide:
TSCA Inventory Status: Listed
Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed

Triethylenetetramine:
TSCA Inventory Status: Listed
Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed

2-Propenenitrile, reaction products with ethylenediamine, hydrogenated:
TSCA Inventory Status: Listed
Canada DSL: Listed
Canadian Regulations: WHMIS Hazard Class(es): D2B; E; D2A
WHMIS Pictograms:

SECTION 16: ADDITIONAL INFORMATION

MSDS Creation Date: July 19, 2012
MSDS Revision Date: July 19, 2012
MSDS Author: Actio Corporation
Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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