

**GHS COMPLIANT SAFETY DATA SHEET**

 TO COMPLY WITH *OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200*  
 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS



**SECTION 1: IDENTIFICATION**

PRODUCT NAME	Polytex NX-55
MFR.'S CODE ID/SYNONYMS	Polytex NX-55
CAS NUMBER	Mixture (see Sections 3 or 8)
PRODUCT USE	Tosylamide Epoxy Resin Solution
RESTRICTIONS ON USE	For industrial use only
MANUFACTURER/SUPPLIER	Estron Chemical, Inc.
ADDRESS	807 North Main Street, Calvert City, KY 42029 USA
GENERAL INFORMATION	(270) 395-4195
EMERGENCY TELEPHONE	CHEMTREC (800) 424-9300

**SECTION 2: HAZARDS IDENTIFICATION**
**Signal Word:** *Warning*
**GHS Classification**

Physical	Health	Environmental
Flammable Liquids – Category 3	Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

**GHS Label**

 	
<b>Symbols:</b> Flame      Exclamation Mark	
<b>Hazard Statements</b> H226: Flammable liquid and vapour H336: May cause drowsiness or dizziness H412: Harmful to aquatic life	<b>Precautionary Statements</b> <i>Prevention</i> 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/light/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. <i>Response</i> P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340+312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. P370+378: In case of fire: Use foam, dry chemical powder, carbon dioxide or water fog to extinguish.

	<i>Storage</i> P403+233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up.  <i>Disposal</i> P501: Dispose of contents/container to an authorized hazardous waste handler.
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HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

**SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	%	CLASSIFICATION	H CODES
n-Butyl Acetate	123-86-4	25 - 27	Flammable Liquids – Category 3 Specific Target Organ Toxicity, Single Exposure (Central Nervous System) – Category 3 Hazardous to the Aquatic Environment, Acute Hazard – Category 3	H226 H336  H412

(See Section 8 for Exposure Limits)

NON-HAZARDOUS INGREDIENTS	CAS #	%
Tosylamide Epoxy Resin	Proprietary	73 - 75

**SECTION 4: FIRST-AID MEASURES**

SYMPTOMS OF EXPOSURE

ACUTE Drowsiness or dizziness. Temporary mild skin or eye irritation. Nausea.  
DELAYED Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache. Nausea. Unconsciousness.

INHALATION If inhaled, Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is labored or with coughing, give 100% supplemental oxygen. If not breathing begin artificial respiration and get medical aid.

SKIN CONTACT Mildly irritating to the skin. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash thoroughly with soap and water. If skin irritation persists consult a doctor.

EYE CONTACT Mildly irritating to the eyes. Wash with plenty of water for 15 minutes. Consult a physician.

INGESTION Do not induce vomiting unless directed by medical personnel. If ingested, seek medical attention.

SPECIFIC TREATMENT No other specific treatments are known or have been identified.

**SECTION 5: FIRE FIGHTING MEASURES**

FLAMMABILITY CLASSIFICATION

Flammable Liquid Class IC

FLAMMABLE LIMITS

LEL: 1.7 %, by volume of solvent.

UEL: 7.6 %, by volume of solvent.

HAZARDOUS COMBUSTION PRODUCTS

Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.

EXTINGUISHING MEDIA

Dry Chemical, Foam, CO<sub>2</sub>, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS

Solvent vapors may travel in the work place. Since even residual amounts can ignite explosively, ensure all ignition sources are removed from the area. Solid stream of water may spread fire. Caustic soda may induce vigorous polymerization of the resinous material at temperatures around 200 °C.

SPECIAL FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus and protective suit when fighting fire. Solid streams of water may spread the fire.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full (Bunker) protective gear.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
PROTECTIVE EQUIPMENT	See Personal Protective Equipment in Section 8.
EMERGENCY PROCEDURES	Avoid unnecessary exposure to bystanders, prevent contact with open flames or high heat sources. Isolate the area and eliminate all ignition sources. Ground and bond all containers and handling equipment. Pump with explosion-proof equipment.
ENVIRONMENTAL PRECAUTIONS	Obey relevant local, state, provincial and federal laws and regulations. Do not allow the product to enter public drainage systems or open water courses.
METHODS AND MATERIALS FOR CLEANING UP	Absorb the product onto vermiculite, floor absorbent or other absorbent materials, such as dry-lime, sand, or soda ash. Sweep or scoop into a suitable container for disposal. Ventilate area and wash spill site after material pickup is complete.

**SECTION 7: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING	<b>Upon receipt, replace the 3/4 inch Shipping bung with the Pressure Relieving bung provided.</b> Drums of this product may build pressure during shipment or during storage after receipt. When this material is received, immediately release the pressure by slowly loosening the smaller drum bung. Replace the bung with the pressure relieving bung provided. <i>Pressure Relief bungs are not approved for shipping. If this material is to be shipped further, the Pressure Relief bung must be removed and the shipping bung re-installed.</i> Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors. Use with adequate ventilation. Ground and bond all containers and handling equipment. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Emptied containers may still be hazardous. Do not cut, drill, grind, weld or perform similar actions on or near empty containers.
CONDITIONS FOR SAFE STORAGE	Store this product with the Pressure Relief bung installed to avoid excessive pressure build in the drum. Store in cool, dry, well-ventilated areas. Keep containers closed. Do not store near extreme heat, open flame or sources of ignition.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Tosylamide Epoxy Resin	Proprietary	73 - 75	<i>None established</i>	<i>None established</i>
n-Butyl Acetate	123-86-4	25 - 27	200 ppm	200 ppm

APPROPRIATE ENGINEERING CONTROLS Showers, eyewash stations and explosion-proof ventilation systems.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE	Chemical splash goggles or face shield.
SKIN	Wear resistant gloves (consult you safety equipment supplier) and impervious protective clothing as appropriate to prevent skin contact.
RESPIRATORY	An appropriate NIOSH approved respirator where exposure limits are exceeded.
HYGIENE MEASURES	Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash face and hands before breaks and at the end of work. Wash contaminated clothing before re-use.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Clear liquid	ODOR	Strong, esteric
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	124 °C @ 760 mmHg
FLASH POINT	TCC, 77°F (26°C)	EVAPORATION RATE	1 (n-Butyl Acetate)
FLAMMABILITY	Flammable Liquid Class IC		
FLAMMABLE LIMITS	LOWER 1.7 %, <i>by volume of solvent</i>	UPPER 7.6 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	8.4 mmHg @ 20 °C	VAPOR DENSITY	4 (Air = 1)
RELATIVE DENSITY	1.2 @ 20 °C	SOLUBILITY IN H <sub>2</sub> O	<i>Solvent</i> – 0.68% @ 20 °C <i>Polymers</i> - Nil
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	407 °C (762 °F)
DECOMPOSITION TEMPERATURE	> 250 °C (Polymer)	VISCOSITY	750 - 1000 cps
% VOLATILE	25 – 27%	SOFTENING POINT	No test data available

## **SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY	This product does not pose a significant reactivity hazard when stored appropriately (see Section 7).
STABILITY	This product is stable when stored appropriately, although drums of this product may build pressure during shipment or during storage after receipt (see Section 7 for more details regarding handling and storage).
CONDITIONS TO AVOID	All ignition sources, heat and open flames.
INCOMPATIBLE PRODUCTS	Strong oxidizers and caustic soda.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.
POSSIBILITY OF HAZARDOUS REACTIONS	Will not occur

## **SECTION 11: TOXICOLOGICAL INFORMATION**

SYMPTOMS OF EXPOSURE				
ACUTE	Drowsiness or dizziness. Temporary mild skin or eye irritation. Nausea.			
DELAYED	Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache. Nausea. Unconsciousness.			
ACUTE TOXICITY				
INHALATION	Harmful if inhaled. May cause drowsiness or dizziness.			
SKIN	Mildly irritating to the skin.			
EYES	Mildly irritating to the eyes.			
INGESTION	Harmful if swallowed – may enter lungs if swallowed or vomited.			
INHALATION TOXICITY	LC <sub>50</sub> Rat	Butyl Acetate Polymers	390 mg/l, 4 h. Not established	
DERMAL TOXICITY	LD <sub>50</sub> Rabbit	Butyl Acetate Polymers	>17600 mg/kg Not established	
SKIN IRRITATION	Draize, Rabbit, 24 hours	Butyl Acetate	500 mg/m <sup>3</sup>	Moderate
EYE IRRITATION	Human Draize, Rabbit, 24 hours	Butyl Acetate Butyl Acetate	300 ppm 100 mg	Moderate Moderate
ORAL TOXICITY	LD <sub>50</sub> Rat	Butyl Acetate Polymers	>10000 mg/kg Not established	
SENSITIZATION	Draize, Rabbit			No data available

CHRONIC EFFECTS	
CARCINOGENICITY	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65
MUTAGENIC EFFECTS	None known
REPRODUCTIVE TOXICITY	None known
TARGET ORGAN EFFECTS	Narcotic Effects (Inhalation)

**SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY	Harmful to aquatic life.		
TOXICITY TO FISH	LC <sub>50</sub> Pimephales promelas, 96 h	Butyl Acetate	18 mg/l
		Polymers	Not established
TOXICITY TO DAPHNIA	EC <sub>50</sub> Daphnia magna, 48 h	Butyl Acetate	44 mg/l
		Polymers	Not established
TOXICITY TO ALGAE	EC <sub>50</sub> Desmodesmus subsp., 72 h	Butyl Acetate	675 mg/l
		Polymers	Not established
PERSISTENCE AND DEGRADABILITY	No data available		
BIOACCUMULATIVE POTENTIAL	No data available		
MOBILITY IN SOIL	No data available		
OTHER ADVERSE EFFECTS	None known		

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL                      Dispose of in accordance with local, state and federal regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers may retain some product residues. Vapor from product residues may create a flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been thoroughly cleaned. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

US EPA WASTE NUMBER & DESCRIPTION    No information available

**SECTION 14: TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

**U.S. DOT**  
 Proper Shipping Name: Resin Solution, *flammable*  
 Classification: 3  
 UN#: 1866  
 Packing Group: III  
 Hazard Label: Flammable Liquid

**ICAO / IATA**  
 Proper Shipping Name: Resin Solution, *flammable*  
 Classification: 3  
 UN#: 1866  
 Packing Group: III  
 Hazard Label: Flammable Liquid

**IMDG**  
 Proper Shipping Name: Resin Solution, *flammable*  
 Classification: 3  
 UN#: 1866  
 Packing Group: III  
 EmS#: F-E, S-E  
 Hazard Label: Flammable Liquid

**ADR/RID**  
 Proper Shipping Name: Resin Solution, *flammable*  
 Classification: 3  
 UN#: 1866  
 Packing Group: III  
 Hazard Label: Flammable Liquid

## **SECTION 15: REGULATORY INFORMATION**

Polytex NX-55 is not TSCA listed. It is listed with the Cosmetics, Toiletry, and Fragrance Association (CTFA). The product may only be used for cosmetics applications under the Federal Food, Drug, and Cosmetics Act (FFDCA) which exempts the product from TSCA listing.

### INTERNATIONAL REGULATIONS

EU REGULATION	(EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization, <i>Substances of Very High Concern</i> : This product does not contain any SVHC listed substances.
REACH	All components of this product are REACH pre-registered.
EINECS	All of the components of this product are included on the European Inventory of Existing Commercial Chemical Substances.
C.D. 96/82/EC	Council Directive 96/82/EC, Annex I not mentioned by name. With regard to possibly appropriate decomposition products see Chapter 10.

### FEDERAL REGULATIONS

SARA 313 This product does not contain any chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### SARA Section 311/312 (40 CFR 370) Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

CERCLA This product, as supplied, contains substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this product.

**n-Butyl Acetate** (123-86-4): 5000 lb final RQ; 2270 kg final RQ.

CLEAN WATER ACT	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CLEAN AIR ACT	This product does not contain any substances regulated as hazardous air pollutants (HAPS under Section 112 of the Clean Air Act Amendments of 1990).
OTHER FEDERAL	None known

### U.S. STATE REGULATIONS

RIGHT TO KNOW	The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in Sections 2 and 15 of this Safety Data Sheet.
CALIFORNIA PROP 65	No substances known to the state of California to cause cancer and/or reproductive toxicity were intentionally added to this product; however, this product may contain unknown trace amounts of substances known to the state of California to cause cancer and/or reproductive toxicity.

## **SECTION 16: OTHER INFORMATION**

DISCLAIMER This product is intended for industrial use only and should be used in accordance with the manufacturer's recommendations. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss,

damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

DATE OF REVISION      April 5, 2016, *replaces March 15, 2016 version*

REASON FOR REVISION      Removed China exemption in Section 15.

SDS PREPARED BY      Glen Pearson

SDS APPROVED BY      Robert Auerbach