

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Information

Product Name: Norst® PB 402-24, PB 403-34, PB 404-44
Product Use: Intermediate - Adhesive
Uses Advised Against: None

Manufacturer

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SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

No need for classification according to GHS criteria for this product.

Label Elements

The product does not require a hazard warning label in accordance with GHS criteria.

Other Hazards:

No specific dangers known, if the regulations/notes for storage and handling are considered.
 May cause eye, skin and respiratory tract irritation. Ingestion may cause gastric disturbances.
 Ensure adequate ventilation. Wear protective clothing.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS#	EINECS#	EU Classification (67/548/EEC)	CLP Annex VI Classification	%
Polybutylene Polymer	9003-27-4	Proprietary	No EU Classification or R phrase	No GHS Classification	Proprietary

Non-Hazardous Statement: The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

SECTION 4 - FIRST AID MEASURES

First Aid Measures

Eye Contact: Immediately flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Get medical attention if irritation or exposure symptoms develop.

Skin Contact: Wash contact area with soap and water.
 If irritation occurs, get medical attention.

Inhalation: Remove victim to fresh air and keep person calm. Give artificial respiration if needed. If difficulty breathing, have oxygen administered by qualified party. If symptoms persist, get medical attention.

Ingestion: Aspiration hazard: DO NOT induce vomiting. Keep respiratory tract clear. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most Important symptoms and effects, acute and delayed

May cause eye and respiratory tract irritation. May cause moderate skin irritation.
 Aspiration hazard: material may enter the lungs if swallowed and cause lung injury.
 May cause gastric disturbance. Ensure adequate ventilation. Wear protective clothing.

Indication for immediate medical care and/or special treatment

Immediate medical care is required if swallowed.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media Carbon dioxide (CO₂), foam, dry chemical powder, water spray.
Unsuitable Media: High volume water jet.

Special Hazards

Fire/Explosion Hazards: Harmful vapors/fumes/fog can be released as result of fire.
Combustion Byproducts: Oxides of carbon and unknown metals.

Advice for Firefighters Wear approved, self-contained breathing apparatus and full protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions, Protective Equipment, Emergency Procedures

Use personal protective clothing and equipment to prevent eye and skin contact.

Environmental Precautions

Prevent material from entering drains. Report spills to appropriate authorities.
Contain spills and contaminated water/firefighting water.

Methods for Cleanup

For large amounts: Pump off product. For residues: Pick up with suitable absorbent material.
Dispose of in accordance with Local, State, Federal and Provincial regulations.

SECTION 7 - HANDLING AND STORAGE

Safe Handling Precautions

No special measures necessary provided product is used correctly.
Keep product away from heat, sparks, flames and all other sources of ignition.
Keep containers closed when not in use.

Safe Storage

Store in unopened containers in a cool, dry area. Protect against moisture.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	Exposure Limits
Polybutylene (PB) Polymer	None established

Ventilation

Provide local exhaust ventilation to control vapours/mists.

Personal Protective Equipment

Eye Protection: Wear safety glasses with side-shields or goggles.

Skin Protection: Body protection must be chosen based on level of activity and exposure.
Impervious gloves such as nitrile rubber or viton are recommended to prevent skin contact.

Respiratory Protection: Wear NIOSH approved respirator, if ventilation is inadequate. For higher exposures, supplied air respirator may be required. Follow applicable regulations.

Hygiene Measures: Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic Physical and Chemical Properties

Appearance:	Lt grey-Lt amber	Vapor Density:	Not applicable
Odor:	Odorless	Specific Gravity:	0.91
Odor Threshold:	Not applicable	Solubility:	Soluble in hydrocarbon solvents
pH:	No data available		Insoluble in water
	PB 402-24 PB 403-34 PB 404-44	Octanol/Water Partition Coefficient:	No data available
Melting Point/Freezing Point:	-77°C (-107°F) <-18°C <-18°C	Evaporation Rate:	Not applicable
Initial Boiling Point/Range:	>232°C (450°F) >343°C >427°C	Vapor Pressure:	Not applicable
Flash Point:	>232°C (450°F) >343°C >427°C	Decomposition Temp:	No data available
Autoignition Temp:	>232°C (450°F) >343°C >427°C	Viscosity:	240-280,000 cps @ 177 °C (350 °F)
Flammable Limits:	No data available	Explosive Properties:	Not explosive
Flammability (solid, gas):	No data available	Oxidizing Properties:	Not an oxidizer
Molecular Formula:	Proprietary	Relative Density:	0.91 g/cc @ 20 °C (68°F)
Molecular Weight:	78,753 NDA NDA		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	No hazardous reactions if stored and handled as prescribed/indicated. No corrosive effect on metal.
Chemical Stability	Stable under normal ambient and storage/handling conditions.
Possible Hazardous Reactions	No hazardous reactions if stored and handled as prescribed/indicated.
Conditions to Avoid	Heat, sparks, flames and other sources of ignition . Temperature: > 230 °C
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as prescribed/indicated. Thermal decomposition: > 230 °C

SECTION 11 - TOXICOLOGICAL INFORMATION

Potential Health Effects

Eye Contact:	May cause slight irritation with redness and blurred vision. Corneal injury is unlikely.
Skin Contact:	May cause moderate irritation and redness.
Inhalation:	Inhalation of vapors, mists or aerosols may cause central nervous system depression with symptoms of headache, dizziness, nausea, drowsiness and unconsciousness may also occur.
Ingestion:	Aspiration hazard. May cause lung damage during swallowing or vomiting. Swallowing may cause central nervous system depression with headache, nausea, dizziness and unconsciousness; gastrointestinal irritation with nausea, vomiting and diarrhea and injury to the lungs, liver and brain.
Chronic Hazards:	No chronic effects are anticipated.

Acute Toxicity Values

Dermal:	No data available
Oral:	Virtually nontoxic after a single ingestion.
Respiration:	No data available
Respiratory Sensitization:	No data available
Eye Sensitization:	Non-sensitizing.
Skin Sensitization:	Non-sensitizing.
Aspiration Toxicity:	No aspiration hazard expected.
Carcinogenicity:	No components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.
Reproductive Toxicity:	No data available
Germ Cell Mutagenicity	No data available. Based on the ingredients, there is no suspicion of a mutagenic effect.
Specific Target Organ Toxicity:	Single Exposure: No data available Repeat Exposure: No data available The statements on toxicology have been derived from products of similar structure and composition.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity	No ecotoxicity data is available. This product is not expected to be harmful to aquatic organisms.
Persistence/Degradability	Product is virtually insoluble in water, thus mechanically separable from water in suitable treatment plants.
Mobility in Soil	Product will not evaporate into the atmosphere from the water surface.
Bioaccumulative Potential	Significant accumulation in organisms is not to be expected.
Results of PBT and vPvB	No data available
Assessment	
Other Adverse Effects	No data available The statements on ecotoxicology have been derived from products of a similar structure and composition.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose in accordance with Local, State, Federal and Provincial regulations.
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SECTION 14 - TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Hazard Class	Packing Group	Environmental Hazards
US Dot	None	Not Regulated	Not applicable	Not applicable	Not applicable
Canada DOT	None	Not Regulated	Not applicable	Not applicable	Not applicable
EU ADR/RID	None	Not Regulated	Not applicable	Not applicable	Not applicable
IMO/IMDG	None	Not Regulated	Not applicable	Not applicable	Not applicable
IATA/ICAO	None	Not Regulated	Not applicable	Not applicable	Not applicable

Special Precautions for User: Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15 - REGULATORY INFORMATION**US Federal Legislation**

CERCLA: This product is not subject to reporting under CERCLA.
CLEAN AIR ACT: This product does not contain any Hazardous Air Pollutants (HAPS).
SARA 311/312 Hazard Categories: None
SARA 313 Toxic Ingredients: None
TSCA: Product components are listed on TSCA inventory.

State Regulations

California Proposition 65: This product contains no chemicals known to state of California to cause cancer, birth, or any other reproductive defects.
Pennsylvania Right To Know: No components subject to the Act.
New Jersey Right To Know: No components subject to the Act.
Other State Regulations: Check individual state requirements.

SECTION 16 - OTHER INFORMATION

Hazard Rating	NFPA	HMIS
Health Hazard	1	1
Fire Hazard	1	1
Reactivity	0	0
Personal Protection		x

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