

## PX-A45-OH


(Strong base type I macroporous catalyst resin)

Effective date 1 January 2023

## SECTION 1: Identification

<b>1A: Product Names</b>	ResinTech PX-A45-OH
<b>1B: Common Name</b>	Strong base type I macroporous catalyst resin
<b>1C: Intended use</b>	A fast reaction catalytic media.
<b>1D: Manufacturer Address</b>	ResinTech, Inc. 1801 Federal Street, Camden, NJ 08105 USA
<b>Contact Information:</b>	856-768-9600 ixresin@resintech.com

## SECTION 2: Hazard Identification

<b>2A: OSHA Hazard classification</b> 0 = Negligible 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Not hazardous or dangerous Health - 0 (0 = Negligible) Fire - 1 (1 = Slight) Reactivity - 0 (0 = Negligible) Special - N/A
 <b>WARNING</b>	(contains hydroxide form anion exchange resin) H315: Causes skin irritation (Category 2) H319: Causes serious eye irritation (Category 2A) H335: May cause respiratory irritation

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## SECTION 2: Hazard Identification Continued

<b>Precautionary Statements</b>	<p>P264: Wash hands thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p> <p>P333+313: If skin irritation or a rash occurs: Get medical advice/attention.</p> <p>P337+313: If eye irritation persists get medical advice/attention.</p> <p>P403+233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P411: Store at temperatures not exceeding 50 °C/ 122 °F.</p>
<b>2B: Product description</b>	Light cream to light yellow colored solid beads approximately 0.6 mm diameter with moderate to strong amine odor.
<b>2C: Precautions for use</b>	Safety glasses and gloves recommended. Slipping hazard if spilled.
<b>Potential health effects</b>	<p>Will cause eye irritation.</p> <p>May cause mild skin irritation.</p> <p>Ingestion is not likely to pose a health risk.</p>
<b>2D: Environmental effects</b>	This product may alter the pH of any water that contacts it.

## SECTION 3: Composition/ Information on Ingredients

<b>3A: Chemical name</b>	Trimethylamine functionalized chloromethylated copolymer of polystyrene in the hydroxide form.
<b>3B: Ingredients: Water</b>	CAS# 7732-18-5 (35 – 65%)
<b>Trimethylamine functionalized Chloromethylated copolymer of Styrene and divinylbenzene in the hydroxide form</b>	CAS# 69011-18-3 (35 - 65%)

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SECTION 4: First Aid Measures	
<b>4A: Inhalation</b>	No adverse effects expected- normal use of product does not produce odors or vapors.
<b>4B: Skin</b>	Wash with soap and water- seek medical attention if a rash develops.
<b>4C: Eye contact</b>	Wash immediately with water- seek attention if discomfort continues.
<b>4D: Ingestion</b>	No adverse effects expected for small amounts, larger amounts can cause stomach irritation. Seek medical attention if discomfort occurs.

SECTION 5: Fire Fighting Measures	
<b>5A: Flammability</b>	NFPA Fire rating = 1
<b>5B: Extinguishing media</b>	Water, CO <sub>2</sub> , foam, dry powder
<b>5C: Fire fighting Procedures</b>	Follow general fire fighting procedures indicated in the work place. Seek medical attention if discomfort continues.
<b>5D: Protective Equipment</b>	MSHA/NIOSH approved self-contained breathing gear, full protective clothing.
<b>5E: Combustion Products</b>	Carbon oxides and other toxic gasses and vapors.
<b>5F: Unusual Hazards</b>	Product is not combustible until moisture is removed. Resin begins to burn at approximately 230° C. Auto ignition can occur above 500° C.

SECTION 6: Accidental Release Measures	
<b>6A: Personal Precautions</b>	Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact. Amine vapors released in headspace above sealed containers can exceed recommended exposure levels for trimethylamine.
<b>6B: Incompatible Chemicals</b>	Strong oxidants can create risk of combustion products similar to burning, exposure to strong acids can cause a rapid temperature increase.
<b>6C: Environmental Precautions</b>	Keep out of public sewers and waterways.
<b>6D: Containment Materials</b>	Use plastic or paper containers, unlined metal containers not recommended.

## SECTION 7: Handling and Storage

<b>7A: Handling</b>	Prolonged skin contact will cause burns due to causticity. Avoid contact with salts or with salty water to prevent premature exhaustion of the resin. Keep resin moist and avoid allowing resin to completely dry.
<b>7B: Storage</b>	Store in a cool dry place (0° to 45° C) in the original shipping container. This product is thermally sensitive and will have reduced shelf life if subjected to extended periods of time at temperatures exceeding 50° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.

## SECTION 8: Exposure Controls/Personal Protection

<b>8A: Personal Precautions</b>	None noted.
<b>8B: Incompatible Chemicals</b>	Provide adequate ventilation.
<b>8C: Personal Protection Measures</b>	Eye Protection- Safety glasses or goggles. Respiratory Protection - Not required for normal use. Protective Gloves - Not required for limited exposure but recommended for extended contact.

## SECTION 9: Physical and Chemical Properties

<b>Appearance</b>	Amber, yellow, or red beads approx. 0.6 mm
<b>Flammability or explosive limits</b>	Flammable above 500° C
<b>Odor</b>	Moderate to strong amine odor
<b>Physical State</b>	Solid
<b>Vapor pressure</b>	N/A
<b>Odor threshold</b>	N/A
<b>Vapor density</b>	N/A
<b>pH</b>	Basic when mixed with water
<b>Relative density</b>	Approx 680 grams/Liter
<b>Melting point/freezing point</b>	Does not melt, freezes at approx. 0 C
<b>Solubility</b>	Insoluble in water and most solvents
<b>Boiling point</b>	Does not boil

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## SECTION 9: Physical and Chemical Properties

Flash point	Approx 500° C
Evaporation rate	Does not evaporate
Partition Coefficient (n-octanol/water)	N/A
Auto-ignition temperature	Approx 500° C
Decomposition temperature	Above 230° C
Viscosity	N/A

## SECTION 10: Stability and Reactivity

10A: Stability	Stable under normal conditions.
10B: Conditions to Avoid	Heat, exposure to strong oxidants.
10C: Hazardous by-products	Trimethylamine, charred polyacrylate, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.
10D: Incompatible materials	Strong oxidizing agents (such as HNO <sub>3</sub> ), strong acids (such as HCl, H <sub>2</sub> SO <sub>4</sub> etc)
10E: Combustion Products	Does not occur

## SECTION 11: Toxicological Information

11A: Likely Routes of Exposure	Oral, skin or eye contact.
11B: Effects of exposure	Delayed - None known. Immediate (acute) - Rash or burn caused by causticity. Chronic - None known.
11C: Toxicity Measures	Skin Adsorption - Unlikely, some transfer of acidity is possible. Ingestion - Oral toxicity believed to be low but no LD50 has been established. Inhalation - Unknown, vapors are very unlikely due to physical properties (insoluble solid).
11D: Toxicity Symptoms	Skin Adsorption - Rash or burn. Ingestion - Indigestion or general malaise. Inhalation - Unknown.
11E: Carcinogenicity	None known

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SECTION 12: Ecological information	
<b>12A: Eco toxicity</b>	Not acutely harmful to plant or animal life.
<b>12B: Mobility</b>	Insoluble, acidity or causticity may escape if wet.
<b>12C: Biodegradability</b>	Not biodegradable.
<b>12D: Bioaccumulation</b>	Insignificant.
<b>12E: Other adverse effects</b>	Not Harmful to the environment.

SECTION 13: Disposal Considerations	
<b>13A: General considerations</b>	Material is non-hazardous. However, unused material can cause a pH increase when wetted.
<b>13B: Disposal Containers</b>	Most plastic and paper containers are suitable. Avoid use of unlined metal containers.
<b>13C: Disposal methods</b>	No specific method necessary.
<b>13D: Sewage Disposal</b>	Not recommended
<b>13E: Precautions for incineration</b>	May release trimethylamine and toxic vapors when burned.
<b>13F: Precautions for landfills</b>	pH of spent resin may be high. Resins used to remove hazardous materials may then become hazardous mixtures

SECTION 14: Transportation Information	
<b>14A: Transportation Class</b>	Not classified as a dangerous good for transport by land, sea, or air.
<b>14B: TDG</b>	Not regulated.
<b>14C: IATA</b>	Not regulated.
<b>14D: DOT (49 CFR 172.101)</b>	Not regulated.

SECTION 15: Regulatory Information	
<b>15A: CERCLA</b>	Not regulated
<b>15B: SARA Title III</b>	Not regulated
<b>15C: Clean Air act</b>	Not regulated
<b>15D: Clean Water Act</b>	Not regulated

## SECTION 15: Regulatory Information

<b>15E: TSCA</b>	Not regulated
<b>15F: Canadian Regulations</b>	WHMIS - Not a controlled product TDG - Not regulated
<b>15G: Mexican Regulations</b>	Not Dangerous

## SECTION 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with federal, state, and local laws.

<b>16A: Date of Revision</b>	1 January 2023
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