

1. Product Identification and Manufacturer/Supplier Details:**A. Product Description:****Ion Exchange Resin****B. Commercial Product Name or Brand (Trade Name):****IonPlus™ CA-10, IonPlus™ CA-12, IonPlus™ CA-16****C. Manufacturer/Supplier Details:****CARBOCHEM INC.**

308 E. Lancaster Avenue, Wynnewood, PA 19096

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E-mail: hq@carbochem.com / Website: www.carbochem.com**D. Emergency Telephone Numbers:** + 1 (800) 424 9300 (Chemtrec) / + 1 (610) 645 9200**2. Hazards & Potential Risks Identification:**

Ion Exchange Resin is not determined to be hazardous.

Hazardous Components:

Benzene, diethenyl-, polymer with ethenylethylbenzene, sulfonated, sodium salts.

Precautionary Information:

Store away from incompatible materials.

*National Fire Protection Association 704

3. Composition & Information on Ingredients:

Description : Ion Exchange Resin

Sodium polystyrene sulfonate : 40-65% w/w

Water : 35-60% w/w

4. First Aid Measures:

Inhalation : Remove to fresh air and allow rest. Seek immediate medical attention.

Skin Contact : Wash skin immediately with soap and plenty of water.

Eye Contact : Avoid contact with eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, consult a doctor.

Ingestion : Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

5. Fire-fighting Measures:

Prevention : None required

Extinguishing Media : Small Fire - Use dry chemical powder
Large Fire - Use water spray, fog or foam. Do not use water jet.

Special Fire Fighting Procedures : Self-contained breathing apparatus should be used

Special Hazards : By heating and fire, harmful vapors/gases may be formed.

Fire Exposure Hazard : None

6. Accidental Discharge Measures:

Personal Precautions : Avoid contact with skin and eyes. Spillage creates slippery surface.

Environmental Precautions : Prevent further leakage if safe to do so. Cover with plastic sheet to avoid spreading. Do not allow to enter drains, sewers or waterways.

Clean-up Method : Use appropriate tools to put the spilled solid in a convenient waste disposal container.

7. Handling and Storage:

Handling : Keep container closed when not in use. Maintain adequate ventilation.

Storage : Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Store away from extreme heat and strong oxidizing agents. Avoid freezing or prolonged storage above 40°C.

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| 8. <u>Exposure Controls and Personal Protection:</u> | |
| Respiratory | : No respiratory protection required |
| Ventilation | : Provide adequate ventilation |
| Hand Protection | : Protective gloves (Rubber) |
| Eye & Protection | : Safety goggles recommended |
| Skin Protection | : Handle with gloves. Gloves must be inspected prior to use. |
| Hygiene Measures | : Safety showers and eyewash stations should be present in work area. |
| Body Protection | : Appropriate work clothes to prevent repeated or prolonged skin contact. |

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| 9. <u>Physical and Chemical Properties:</u> | |
| Appearance | : Spherical beads |
| Odor | : Odorless |
| Solubility (in Water) | : Insoluble in cold water |
| Boiling Point | : Not Applicable |
| Melting Point | : Not Applicable |
| Flash Point | : Not Applicable |
| Flammable Limits | : LEL: N/A UEL: N/A |
| Vapor Pressure (mm Hg) | : Not Applicable |
| Vapor Density (Air = 1) | : 0.62 |
| Density | : 1.26 – 1.30 g/ml |
| Specific Gravity (H ₂ O = 1) | : 1.3 |
| Evaporation Rate (Butyl Acetate = 1) | : Not Applicable |
| pH | : Neutral |

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| 10. <u>Stability and Reactivity:</u> | |
| Stability | : Stable |
| Incompatibility | : Highly reactive with oxidizing agents |
| Conditions to Avoid | : At temperatures above 204°C decomposition occurs |
| Hazardous Decomposition By-products | : Carbon oxides (CO, CO ₂) |

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| 11. <u>Toxicological Information:</u> | |
| Effects and Hazards of Eye Contact | : May cause irritation on direct contact. |
| Effects and Hazards of Skin Contact | : Mild irritation may occur. |
| Effects and Hazards of Inhalation | : Inhalation of dusts may cause respiratory irritation. |
| Effects and Hazards of Ingestion | : May cause discomfort if swallowed. |

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| 12. <u>Ecological Information:</u> | |
| Toxicity | : No data available |
| Persistence and Degradability | : No data available |
| Bioaccumulative Potential | : No data available |
| Mobility in Soil | : No data available |
| Results of PBT and vPvB assessment: | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted (?) |

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| 13. <u>Disposal Considerations:</u> | |
| Waste Disposal Method | : Consult your local or regional authorities. As supplied, new or used ion exchange resins generally are not hazardous and therefore are not considered as hazardous wastes. |

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| 14. <u>Transport Information:</u> | |
| Proper Shipping Name | : N/A |
| Hazardous Goods Classification | : Not regulated as hazardous goods |
| DOT Label | : None |

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| 15. <u>Regulatory Information:</u> | |
| Hazardous Goods Classification | : Non-Hazardous |
| Labelling Information - Product Description | : Ion Exchange Resin |
| TSCA Inventory | : Listed |

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| 16. <u>Other Information:</u> | |
| The information contained herein is accurate to the best of our knowledge and belief. However, since the conditions of handling and use are beyond our control, we make no guarantee for results obtained, and assume no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state, and local laws and regulations. | |
| Revision Date: May 2016 | |