AMMONIUM HYPOPHOSPHITE

4. FIRE HAZARDS

4.1 Flash Point: Currently not available
4.2 Flammable Limits in Air: Currently not available
4.3 Fire Extinguishing Agents: Carbon dioxide, dry chemical, or water spray
4.4 Fire Extinguishing Agents Not To Be Used: Currently not available
4.5 Special Hazards of Combustion Products: Decomposes at 240°C emitting phosphine and PO₂. Phosphine is a very toxic gas which ignites spontaneously.
4.6 Behavior in Fire: Decomposes when heated with evolution of phosphine which ignites spontaneously.
4.7 Auto-Ignition Temperature: Currently not available
4.8 Electrical Hazards: Currently not available
4.9 Burning Rate: Currently not available
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichiometric Air to Fuel Ratio: Currently not available
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): Currently not available
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed
4.15 Flame Temperature: Currently not available
4.16 Heat of Decomposition: Not pertinent
4.17 Exothermic at infinite dilution
4.18 Decomposes 464°F = 240°C = 473.2°K
4.19 Heat of Solution: Not pertinent
4.20 Specific Gravity: 1.634 at room temperature
5.  CHEMICAL REACTIVITY

5.1 Reactivity with Water: No reaction
5.2 Reactivity with Common Materials: No reaction
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
5.5 Polymerization: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent
6. WATER POLLUTION

6.1 Aquatic Toxicity: Currently not available
6.2 Watercolumn Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile: Not listed
7. SHIPPING INFORMATION

7.1 Grades of Purity: 98% pure
7.2 Storage Temperature: Cool
7.3 Inert Atmosphere: Currently not available
7.4 Venting: Currently not available
7.5 IMO Pollution Category: Currently not available
7.6 Ship Type: Currently not available
7.7 Barge Hull Type: Currently not available
8. HAZARD CLASSIFICATIONS

8.1 49 CFR Class: Not listed
8.2 49 CFR Package Group: Not listed
8.3 Marine Pollutant: No
8.4 NFPA Hazard Classification: Not listed
8.5 EPA Reportable Quantity: Not listed
8.6 EPA Pollution Category: Not listed
8.7 EPA Pollution Category: Not listed
8.8 RCRA Waste Number: Not listed
8.9 EPA FWPCA List: Not listed
9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15°C and 1 atm: Solid
9.2 Molecular Weight: 83.0271 kg/mol
9.3 Boiling Point at 1 atm: Decomposes 464°F = 240°C = 473.2°K
9.4 Freezing Point: 392°F = 200°C = 473.2°K
9.5 Critical Temperature: Currently not available
9.6 Critical Pressure: Currently not available
9.7 Specific Gravity: 1.634 at room temperature
9.8 Liquid Surface Tension: Not pertinent
9.9 Liquid Water Interfacial Tension: Not pertinent
9.10 Vapor (Gas) Specific Gravity: Not pertinent
9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
9.12 Latent Heat of Vaporization: Not pertinent
9.13 Heat of Combustion: Currently not available
9.14 Heat of Decomposition: Currently not available
9.15 Heat of Solution: Endothermic at infinite dilution (25°C) 34.7 Btu/lb = 19.3 cal/g = 8.07 x 10⁻⁵ J/kg
9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: Currently not available
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