



8210 N. Austin Avenue, Morton Grove, IL 60053-3205, U.S.A.
 847-967-6000 800-323-8144
 (Monday - Friday: 7:30 a.m. - 4:00 p.m. CST)

Emergency Contact:
 INFOTRAC 800-535-5053 [U.S.A.]

Name: Ion Pair Cocktail Q12 or Ion Pair Concentrate Q12
 Code: 1-404021-200, 1-404021-500, 1-404031-200, 1-404041-200, 1-404051-200

..... **SAFETY DATA SHEET**

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

- 1.1 Product Identifier
 - Name Ion Pair Cocktail Q12 or Ion Pair Concentrate Q12
 - Code 1-404021-200, 1-404021-500, 1-404031-200, 1-404041-200, 1-404051-200
- 1.2 Use of Substance/Mixture
 - Use Analytical Ion Pairing Reagent—Quaternary Ammonium Phosphate Buffer
- 1.3 Details of Manufacturer/Supplier
 - Company Regis Technologies, Inc.
 8210 N. Austin Avenue
 Morton Grove, IL 60053
 847-967-6000; 800-323-8144 (toll free)
 Email: cservice@registech.com
 www.registech.com
- 1.4 Emergency Telephone
 - INFOTRAC 800-535-5053 [U.S.A.]

SECTION 2 HAZARDS IDENTIFICATION

..... **Emergency Overview**

NFPA Ratings (Scale 0-4); Health = 2; Fire = 0; Reactivity = 0;

Liquid: Colorless to pale yellow with slight ammonia-like odor; similar properties to a soap solution. May be irritating to skin or eyes. May be irritating to mucous membranes, if mists are inhaled. May be harmful if ingested.

The properties of this material have not been fully investigated. Use due caution in handling and use of this material.

May emit toxic fumes under fire conditions--potential chemical or thermal decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides

Standard chemical handling precautions: Avoid ingestion or breathing mists. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Target organs: Undetermined

- 2.1 Classification of the Substance or Mixture
 - OSHA Hazards No known OSHA hazards.
 - Target Organs None known.

Hazard Indication (67/548/EEC or 1999/45/EC)

Symbol(s) NA
 R-Phrase(s) NA
 S-Phrase(s) S24/25 Avoid contact with skin and eyes.

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

GHS Label Elements

Pictograms or hazard symbols Not applicable
 Signal Word Not applicable
 Hazard Statement Not applicable
 Precautionary Statements Not applicable
 [Response] P302+P352-IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| | | | |
|---------------|---|----|--|
| Name | Ion Pair Cocktail Q12 or Ion Pair Concentrate Q12 | | |
| Synonyms | Dodecyltriethylammonium Phosphate Buffer (0.5 M, pH 6.5 in HPLC grade water); N,N,N-Triethyl-1-dodecanaminium phosphate buffer solution; Ion Pair Reagent Q12 | | |
| CAS No. | 127312-12-3 | | |
| EINECS No. | None Available | | |
| Chem. Formula | C ₁₈ H ₄₀ N•1/3 O ₄ P | or | C ₅₄ H ₁₂₀ N ₃ O ₄ P or (C ₁₂ H ₂₅ N(C ₂ H ₅) ₃) ₃ PO ₄ |
| Mol. Weight | 906.5 | | |
| Ingredients | | | Concentration (%/wt) |
| | Dodecyltriethylammonium phosphate (127312-12-3) | | 31.2 % |
| | Water (7732-18-5) | | 68.8 % |

SECTION 4 FIRST AID MEASURES

- 4.1 Description of first aid measures
 General: Do not attempt to neutralize as it frequently makes matters worse.
 Eye contact: Rinse eyes with plenty of water for at least 15 minutes; lift eyelids occasionally. If irritation persists, consult physician.
 Skin contact: Immediately remove contaminated clothing and shoes, then wash skin with soap and plenty of water. If irritation persists, consult physician.
 Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and keep person warm and at rest. Consult physician.
 Ingestion: Give large amounts of water or milk (two glasses at most). Avoid vomiting. Consult physician immediately.
 Physician note: Symptomatic and supportive care. There is no specific antidote.
- 4.2 Most important symptoms and effects, both acute and delayed.
 Eyes-may cause mild irritation on contact. May be irritating to skin. May be irritating to mucous membranes, if mists are inhaled. May be harmful if ingested. Similar to a diluted soap solution.
- 4.3 Indication of immediate medical attention and special treatment needed.
 No information available.

SECTION 5 FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media
 Not applicable.
- 5.2 Specific hazards arising from the chemical.
 Non flammable or combustible.
 Explosion potential--none.
 Avoid inhalation of material or combustion by-products.
 Emits toxic fumes under fire conditions: May emit carbon oxides, nitrogen oxides, phosphorus oxides
- 5.3 Advice for fire-fighters
 Wear protective clothing to prevent contact with skin and eyes.

SECTION 6 ACCIDENTAL RELEASE MEASURES.....

- 6.1 Personal precautions, protective equipment, and emergency procedures
 For non-emergency personnel - Avoid material contact or inhalation of mists. Evacuate unnecessary personnel from area.

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For emergency responders – Wear protective clothing to prevent contact with skin and eyes. Avoid breathing mists. See Section 8.3.

- 6.2 Environmental precautions
Prevent material from entering drains.
- 6.3 Methods of clean up
Ventilate area. Isolate spilled material. Absorb using chemically compatible spill pillows, or similar adsorbent material. Sweep up, if not absorbed in pillow, seal in appropriate hazardous waste container, and hold for proper waste disposal. Keep out of water supplies and sewers. Wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

- 7.1 Safe Handling Precautions
Wear suitable protective equipment to avoid contact with skin, eyes, or inhalation of mists. May be irritating to skin or eyes. May be irritating to mucous membranes, if mists are inhaled. May be harmful if ingested. Wash after handling.
- 7.2 Storage Conditions
Store tightly closed in a cool, dry, and well ventilated place. Store away from incompatible materials (See Section 10.).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters
Exposure limits: Dodecyltriethylammonium Phosphate Buffer (0.5 M, pH 6.5 in HPLC grade water) (127312-12-3) –
 OSHA – PEL No limits established.
 ACGIH – TLV No limits established.

 Environmental Do not empty into drains.
- 8.2 Appropriate engineering controls
Safety shower and eye wash
Local exhaust and mechanical ventilation required. Hood recommended. Fume scrubber.
- 8.3 Personal protection
 Eye/Face Chemical safety eyewear or goggles.
 Hand Compatible chemical-resistant gloves.
 Respiratory If exposure to mists likely: NIOSH/MSHA approved respirator for organic vapor and mists.
 Dermal (not hand) Protective Clothing (e.g., lab coat)
 Hygiene Avoid inhalation, ingestion; contact with eyes, skin, and clothing; Avoid prolonged or repeated exposure. Wash thoroughly after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on physical and chemical data

| | |
|------------------------|--|
| Chemical Formula | C ₅₄ H ₁₂₀ N ₃ O ₄ P |
| Molecular Weight | 906.5 |
| Form | liquid |
| Appearance | Colorless to pale yellow solution |
| Odor | slight ammonia-like odor |
| Odor threshold | Not available |
| pH | 6.5 (0.5 M solution in HPLC grade water) |
| Melting/freezing point | Not established |
| Boiling point: | 101-101.4°C (213-214°F) |

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| | | |
|--|-----------------------------|----------------|
| Flammability (liquid) | | |
| Flash Point | Not applicable | |
| Flammable limits (%v/v) | UEL (upper explosive limit) | Not applicable |
| | LEL (lower explosive limit) | Not applicable |
| Autoignition temperature | Not applicable | |
| Decomposition temperature | Not applicable | |
| OSHA Flammability Class | Not applicable | |
| Evaporation Rate (BuAc = 1.0) | 1.0 | |
| Vapor pressure (mmHg) | Not available | |
| Vapor density (air=1): | Not available | |
| Relative density (g/cm ³) | 1.0 | |
| Water Solubility | miscible in water | |
| Water reactive | No | |
| Solubility (other) | Not available | |
| Partition coefficient: N-octanol/water | Kow (Pow) = Not applicable | |
| Viscosity | Not applicable | |

SECTION 10 STABILITY AND REACTIVITY

- 10.1 Reactivity
Stable.
- 10.2 Chemical Stability
Stable is stored protected from heat and ignition sources.
- 10.3 Possibility of hazardous reactions
Oxidizers (should be tested for compatibility prior to use)
Chlorine gas, chloramines, hypochlorites, sodium hypochlorite (exothermic, explosive)
- 10.4 Conditions to avoid
Avoid incompatibilities.
Keep out of water supplies and sewers.
- 10.5 Incompatible materials
Chlorine gas, chloramines, hypochlorites, sodium hypochlorite (exothermic, explosive)
Strong oxidizers
- 10.6 Hazardous decomposition products
Combustion carbon oxides, nitrogen oxides, phosphorus oxides

SECTION 11 TOXICOLOGICAL INFORMATION

| | | |
|-----------------------------------|----------------------|-------------------|
| 11.1 Toxicological Information | | |
| Acute toxicity | Oral LD50 | No data available |
| | Inhalation LC50 | No data available |
| | Dermal LD50 | No data available |
| | Other acute toxicity | No data available |
| Skin corrosion/irritation | No data available | |
| Serious eye damage/irritation | No data available | |
| Respiratory irritation | No data available | |
| Respiratory or skin sensitization | No data available | |
| Germ cell mutagenicity | No data available | |
| Carcinogenicity | | |
| IARC | No data available. | |
| NTP | No data available | |
| OSHA | No data available | |

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Reproductive toxicity (Including teratogenicity) No data available
 Specific target organ toxicity (STOT)
 STOT-single exposure No data available
 STOT-repeated exposure No data available
 Aspiration hazard No data available
 RTECS Number Not available

11.2 Further Information

Potential health effects
 Eye May be irritating.
 Skin May be irritating.
 Inhalation May be irritating to mucous membranes and respiratory tract. May be harmful.
 Ingestion May be harmful.
 Symptoms See above route. Pre-existing conditions that may be aggravated: not determined.
 Miscellaneous This chemical in a 0.5 M aqueous solution has properties similar to a soap solution.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity No data available for this specific product.
 12.2 Persistence and degradability No data available for this specific product.
 12.3 Bioaccumulative potential BCF = No data available for this product.
 12.4 Motility in soil Log Kow = No data available for this product.
 12.5 Other adverse effects No data available for this product.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Disposal methods

U . S. EPA Waste Codes None
 Waste Characterization (per U. S. regulations) RCRA Hazard Class (40CFR 261): none
 Generator is responsible for proper waste characterization. NOTE: U. S. state hazardous waste regulations may differ considerably from U. S. Federal regulations.
 Waste Disposal That which cannot be recovered or recycled, should be disposed of in accordance with all applicable international, national, regional, state, and local laws. Do NOT dump into any sewer, on ground, or into any body of water.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number Not applicable. Not regulated—Not a dangerous goods.
 14.2 UN proper shipping name Not applicable.
 14.3 Transport Hazard Class Not applicable.
 14.5 Packing group Not applicable.
 14.6 Environmental hazards Not applicable
 14.6 Special precautions for user See Section 8 for exposure/personal protection guidance.
 NA Emergency Guidebook Number: Not applicable.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and Environmental regulations specific for the product in question.

OSHA Health: Irritant Physical: Flammable Liquid
 NFPA: H2 F0 R0 HMIS: H2 F0 PH0

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15.2 Chemical Inventory Lists

..... Ion Pair Cocktail Q12 or Ion Pair Concentrate Q12
 (Dodecyltriethylammonium Phosphate Buffer)
 CAS Number..... 127312-12-3
 TSCA: NL
 EINECS:..... NL
 Number NA
 CERCLA [Section 103 (40 CFR 302.4)]:..... NL
 RQ (lbs) NA
 RCRA Waste Code..... NA
 OSHA Process Safety [29 CFR 1910.119]: NL
 TQ (lbs)..... NA
 Clean Air Act
 [Section 112r (40 CFR 68)]:..... NL
 TQ (lbs)..... NA
 Contains Ozone Depleters (Class I or Class II) N
 [Section 103 (40 CFR 302.4)]: NL
 SARA Title III Notification [40 CFR 302.4]:
 Section 302/304 (EHS) Ingredient [40 CFR 355.3]..... NL
 TPQ (lbs)..... NA
 RQ (lbs) NA
 Section 313 Ingredient [40 CFR 372.65] NL
 SARA Hazards Acute.... N Chronic.... N Fire....N Pressure.... N ReactivityN
 State Lists: NL
 States..... NL
 On CA 65 Significant Risk Level..... NL

SECTION 16 **OTHER INFORMATION**

16.1 Literature References

None.

The above information is believed to be correct to the best of our present state knowledge, but does not purport to be all-inclusive and shall be used only as a guide. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

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