



8210 N. Austin Avenue, Morton Grove, IL 60053-0519, 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: Dodecyltriethylammonium Phosphate Buffer (0.5 M, pH 6.5 in HPLC grade water)
 Code: 404021, 404031, 404041, 404051

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

SECTION 1 PRODUCT IDENTIFICATION

Name: Dodecyltriethylammonium Phosphate Buffer (0.5 M, pH 6.5 in HPLC grade water)
 Code: 404021, 404031, 404041, 404051

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS.....

Synonyms

N,N,N-Triethyl-1-dodecanaminium phosphate; Q12 Ion Pair Cocktail, Q12 Ion Pair Reagent;
 CAS #: 127312-12-3 Q12 Ion Pair Concentrate
 MF: C₁₈H₄₀N•1/3 O₄P or C₅₄H₁₂₀N₃O₄P or (C₁₂H₂₅N(C₂H₅)₃)₃PO₄

Ingredients

	<i>Concentration (%/wt)</i>
Dodecyltriethylammonium phosphate (127312-12-3)	31.2 %
Water (7732-18-5)	68.8 %

SECTION 3 HAZARDS IDENTIFICATION

Precautionary Statements

See Sections 8 and 11 for further details.

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

..... **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

See Sections 4, 5, 6, 8, 9, and 10.

Other Hazard Information

Primary Route(s) of Entry: Undetermined

Eye: May be irritating.

Skin: May be irritating.

Inhalation: May be irritating to mucous membranes.

Ingestion: May be harmful.

Acute: No information.

Chronic: May cause irritation. May be harmful.

Symptoms: See above route. Pre-existing conditions that may be aggravated: not determined.

See Section 11 for additional toxicological data.



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Special Storage Instructions

None

Special Handling Instructions

None

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Airborne Exposure Limits

Dodecyltriethylammonium Phosphate 0.5 M Aqueous Solution	TWA		STEL		Ceiling		skin
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	
OSHA – PEL	NE	NE	NE	NE	NE	NE	NE
ACGIH - TLV	NE	NE	NE	NE	NE	NE	NE

NE = Not established

Special/Other Control Measures

Odor threshold: NE

Personal Protective Equipment (PPE)

Chemical safety eyewear

Compatible chemical-resistant gloves

If exposure to mists likely: NIOSH/MSHA approved respirator for organic vapor and mists.

Protective Clothing (e.g., lab coat)

Other Standard Safety Equipment and Engineering Preventive Measures

Safety shower and eye wash

Mechanical exhaust required. Hood recommended.

General Precautions and Handling Measures

Avoid ingestion, inhalation and contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure. Wash thoroughly after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Chemical Family: Quaternary Ammonium Phosphate

Use: Ion Pairing Reagent--Buffer

Appearance, Odor, and Other Properties

Appearance: Colorless to pale yellow solution

Odor: slight ammonia-like odor

MP: NE

FW: 906.5

bp: 101-101.4°C (213-214°F)

Solubility in Water: Miscible

pH: 6.5

VP (mmHg): NA

Vapor Density: NA

% Volatiles: NE

Evap. Rate: 1.0

Specific Gravity (H₂O = 1.0): 1.0

Viscosity: NE

Refractive Index: NE

Solubility in Organic Solvents: NE

SECTION 10 STABILITY AND REACTIVITY

Stability

Stable.

Abbreviations: NA—not applicable; NE—not established; U—unknown/not available; NL—not listed; N—no; Y—yes.; NDA—No data available.



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Incompatibilities

Oxidizers (should be tested for compatibility prior to use)

Precautions

Avoid incompatibilities.

Hazardous Combustion or Decomposition Products

May emit carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides

Hazardous Polymerization

None

SECTION 11 TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS #: No number assigned by RTECS--not listed.

Irritation Data

No data available.

Toxicity Data

No data available

Carcinogenicity

OSHA	IARC	NTP	ACGIH	NIOSH
NL	NL	NL	NL	NL

NL = Not Listed as a carcinogen;

Teratogenicity

No data available.

Reproductive Effects

No data available.

Mutagenicity

No data available.

Miscellaneous

This chemical in a 0.5 M aqueous solution has properties similar to a soap solution.

Acute Effects

See specific route responses in Section 3 **Hazards Identification** above.

Symptoms: See Section 3 **Hazards Identification** above.

Chronic Effects

See Section 3 **Hazards Identification** above.

Target organs: Undetermined

SECTION 12 ECOLOGICAL INFORMATION

No known ecological hazards.

This material may be biodegradable in an acclimated biological treatment facility. No specific biodegradation information is available.

No acute aquatic toxicity data available specifically for this compound, however, quaternary ammonium compounds with the same cation have been shown to be toxic to the ceriodaphnia dubia (water flea).

Standard Chemical Precautions

Keep out of water, air, and soil.

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SECTION 13 DISPOSAL CONSIDERATIONS

That which cannot be recovered or recycled, should be disposed of in accordance with all applicable Federal, State, and local environmental regulations.

RCRA waste code(s): None

RCRA Hazard Class (40CFR 261): None

SECTION 14 TRANSPORT INFORMATION

Ship in accordance with all applicable local, State, Federal, and International transportation regulations.

The following is a summary only. Check regulations for complete information:

U. S. Department of Transportation (49CFR171.101)
 Hazard Class or Division: Not regulated.
 Land Transport ADR/RID: Not regulated.
 Air Transport IATA/ICAO: Not regulated.
 Maritime Transport IMDG: Not regulated.

SECTION 15 REGULATORY INFORMATION

Reviews, Standards, and Regulations

.....Dodecyltriethylammonium Phosphate
 CAS Number..... 127312-12-3
 TSCA:..... NL*
 *This chemical is for research and development purposes only.
 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
 State Lists:..... NL
 States.....NL on CA, PA, MN, MA, FL, NJ
 CA No Significant Risk Level NL
 Clean Air Act
 [Section 112r (40 CFR 68)]:..... NL
 TQ (lbs)..... NA
 Contains Ozone Depleters (Class I or Class II)..... NL
 Clean Air Act [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

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Hazard Classes

Sara	Acute	Chronic	Fire	Pressure	Reactivity
Title III	N	N	N	N	N
	Health	Flammability	Reactivity	Special Hazards	
NFPA	2	0	0	None	
HMIS	1	0	0	None	

Risk Phrases:

Caution: The properties of this material have not been fully investigated.

Safety Phrases:

S24/25 Avoid contact with skin and eyes.

SECTION 16 OTHER INFORMATION

Miscellaneous

The health and toxicological hazards of this compound have not been fully investigated; therefore, this substance must be handled only by, or under close supervision of those qualified in the handling and use of potentially hazardous substances.

This MSDS was revised as follows:

This MSDS was revised to include new catalog numbers and correct the version sequence number. All other sections remain the same.

Disclaimer

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Regis Technologies, Inc., does not guarantee said information is accurate or complete, *nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose.* Adjustment to conform with the actual conditions of usage may be required. Regis Technologies, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product, nor for the results obtained, or for incidental or consequential damage arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.

Approved of by: MBF

This is the last page of this MSDS.

Reviewed and re-approved of with minor changes to the footer abbreviations, format, and removal of the R-Codes.
 by: Jon Pilli

08/04/2008