



SAFETY DATA SHEET

Preparation Date: 07/25/2018 Revision Date: 07/25/2018 Revision Number: G1

1. IDENTIFICATION						
Product identifier						
Product code: Product Name:	T2329 TETRABUTYLAMMONIUM DIHYDROGEN PHOSPHATE, HPLC GRADE					
Other means of identification						
Synonyms:	Tetrabutylammonium phosphate					
0.00 %	Butanaminium, N,N,N-tributyl-, phosphate (1:1)					
CAS #:	5574-97-0					
RTECS # CI#:	Not available Not available					
Ci#.	Not available					
Recommended use of the chem						
Recommended use:	No information available.					
Uses advised against	No information available					
Supplier:	Spectrum Chemical Mfg. Corp					
	14422 South San Pedro St.					
	Gardena, CA 90248					
	(310) 516-8000					
Order Online At:	https://www.spectrumchemical.com					
Emergency telephone number	Chemtrec 1-800-424-9300					
Contact Person:	Martin LaBenz (West Coast)					
Contact Person:	Ibad Tirmiz (East Coast)					
	2. HAZARDS IDENTIFICATION					
Classification						
Classification						
This chemical is not considered hazar	dous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)					
Not a dangerous substance or mixture	e according to the Globally Harmonized System (GHS)					
Label elements						
Not classified						

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards
Not available

Product code: T2329 Product name: 1/11

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	100

4. FIRST AID MEASURES

First aid measures

National Capital Poison Center in the United States can provide assistance if you **General Advice:**

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms **Eye Contact:**

persist, call a physician.

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Inhalation:

oxygen. Get medical attention.

Do not induce vomiting without medical advice. Never give anything by mouth to an Ingestion:

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation

May cause digestive tract irritation May cause irritation of respiratory tract

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: Do not use water jet.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides.

Oxides of phosphorus.

Specific hazards: May be combustible at high temperatures.

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Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL

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Tetrabutylammonium	5574-97-0	None	None	None	None
Dihydrogen Phosphate					

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Gloves

Chemical resistant apron Long sleeved clothing

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Granular powder. White. Off-white.

Odor:TasteFormula:Amine-like.No information available.C16H38NO4P

Molecular/Formula weight (g/mole): Flammability: Flashpoint (°C/°F):

No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

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Upper Explosion Limit (%): Melting point/range(°C/°F): **Decomposition temperature(°C/°F):**

No information available 148-151°C/298.4-303.8°F No information available

Boiling point/range(°C/°F): Density (g/cm3): **Bulk density:**

No information available No information available No information available

Specific gravity: pH:

Vapor pressure @ 20°C (kPa): No information available pH of 5% solution: 4-5 No information available

Evaporation rate: Vapor density:

VOC content (g/L): No information available No information available No information available

No information available

Odor threshold (ppm): Partition coefficient **Viscosity:**

No information available (n-octanol/water): No information available

Miscibility: Solubility:

No information available Soluble in Water

Soluble in Ethanol Soluble in acetonitrile

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Hygroscopic. Stable under recommended storage conditions. Stability:

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Avoid dust formation. Exposure to moist air. Exposure to

moisture. Incompatible materials.

Strong oxidizing agents Incompatible Materials:

Hazardous decomposition Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Oxides of phosphorus.

products:

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Inhalation. Ingestion. Skin.

Product code: T2329

Acute Toxicity

Product name: TETRABUTYLAMMONIUM DIHYDROGEN PHOSPHATE, HPLC

GRADE

Component Information

Tetrabutylammonium Dihydrogen Phosphate

CAS-No. 5574-97-0

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May cause digestive (gastointestinal) tract irritation. Health injuries are not known

or expected under normal use.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

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Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure Target Organs: No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Tetrabutylammonium	5574-97-0	None	None	None	None
Dihydrogen Phosphate					

Product code: T2329
Product name:
TETRABUTYLAMMONIUM
DIHYDROGEN PHOSPHATE, HPLC
GRADE

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available
No information available
No Information available
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
No information available
No information available
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available
No information available
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

Product code: T2329 Product name:
TETRABUTYLAMMONIUM

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Tetrabutylammonium	5574-97-0	PresentACTIV	Not present	Not present	Not present	Not present	Present	Present
Dihydrogen Phosphate	·	E						226-947-1

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Tetrabutylammoniu m Dihydrogen Phosphate	5574-97-0	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification

Product code: T2329

Not a dangerous product according to HPR classification criteria.

Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Tetrabutylammonium Dihydrogen	5574-97-0	Present	Not Listed
Phosphate			

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Tetrabutylammonium Dihydrogen Phosphate	5574-97-0		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

16. OTHER INFORMATION

Preparation Date: 07/25/2018
Revision Date: 07/25/2018
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or

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End of Safety Data Sheet

Product code: T2329