

# **SAFETY DATA SHEET**

#### 1. Identification

Product identifier TETRAMETHYLAMMONIUM HYDROGEN PHTHALATE, 99%

Other means of identification

 Product code
 2524

 CAS number
 79723-02-7

Synonyms TETRAMETHYLAMMONIUM ACID PHTHALATE \* TETRAMETHYLAMMONIUM BIPHTHALATE

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name Address**GFS Chemicals, Inc.
800 Kaderly Drive
Columbus, OH 43228

United States

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@gfschemicals.com

Emergency phone Emergency Assistance

number

2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Acute toxicity, oral Category 3

Specific target organ toxicity, repeated Category 2

Chemtrec 800-424-9300

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 1

hazard

**OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Toxic if swallowed. May cause damage to organs through prolonged or repeated exposure. Very

toxic to aquatic life.

**Precautionary statement** 

**Prevention** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release

to the environment. Do not eat, drink or smoke when using this product.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Get

medical advice/attention if you feel unwell. Collect spillage.

**Storage** Store locked up.

**Disposal** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

# 3. Composition/information on ingredients

**Substances** 

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 ${\it Material name: TETRAMETHYLAMMONIUM\ HYDROGEN\ PHTHALATE,\ 99\%}$ 

**CAS** number % **Chemical name** Common name and synonyms **TETRAMETHYLAMMONIUM** TETRAMETHYLAMMONIUM ACID 79723-02-7 100 HYDROGEN PHTHALATE **PHTHALATE** 

TETRAMETHYLAMMONIUM BIPHTHALATE

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important

symptoms/effects, acute and

delayed **Indication of immediate** 

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

Prolonged exposure may cause chronic effects.

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show

this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media

**Unsuitable extinguishing** 

media

Specific hazards arising from the chemical

**Special protective equipment** 

and precautions for

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

firefighters Fire fighting

equipment/instructions

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

Use water spray to cool unopened containers.

**General fire hazards** No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

**Precautions for safe handling** 

Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

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<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

**Occupational exposure limits** This substance has no PEL, TLV, or other recommended exposure limit.

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Other Use of an impervious apron is recommended.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

**Physical state** Solid.

Crystalline powder. **Form** 

Color White.

Odor Not available. **Odor threshold** Not available. pН Not available.

298.4 - 302 °F (148 - 150 °C) Melting point/freezing point

Initial boiling point and

boiling range

Not available.

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density Not available. **Relative density** 

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive.

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Molecular formulaC12H17NO4Molecular weight239.27 g/molOxidizing propertiesNot oxidizing.

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

**Conditions to avoid** Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition Carbon oxides, Nitroge

products

Carbon oxides. Nitrogen oxides (NOx).

## 11. Toxicological information

#### Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

**Acute toxicity** Toxic if swallowed.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

## **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure.

#### 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life.

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**Persistence and degradability** No data is available on the degradability of this substance.

**Bioaccumulative potential**No data available. **Mobility in soil**No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

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# 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this

material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with

chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

**UN** number UN2811

**UN** proper shipping name

Toxic solids, organic, n.o.s. (TETRAMETHYLAMMONIUM HYDROGEN PHTHALATE)

Transport hazard class(es)

Class 6.1(PGIII)

**Subsidiary risk** Label(s) 6.1 **Packing group** III

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** IB8, IP3, T1, TP33

**Packaging exceptions** 153 Packaging non bulk 213 **Packaging bulk** 240

**IATA** 

UN2811 UN number

**UN proper shipping name** Toxic solid, organic, n.o.s. (TETRAMETHYLAMMONIUM HYDROGEN PHTHALATE)

Transport hazard class(es)

Class 6.1(PGIII)

**Subsidiary risk Packing group** III **Environmental hazards** No. **ERG Code** 6L

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number

**UN proper shipping name** TOXIC SOLID, ORGANIC, N.O.S. (TETRAMETHYLAMMONIUM HYDROGEN PHTHALATE)

Transport hazard class(es)

Class 6.1(PGIII)

**Subsidiary risk Packing group** III **Environmental hazards** 

Marine pollutant No. **EmS** F-A, S-A

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable.

and the IBC Code

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### IATA; IMDG



# 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

**SARA 304 Emergency release notification** 

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** Yes

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

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**US state regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is

not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories** 

Country(s) or regionInventory nameOn inventory (yes/no)\*AustraliaAustralian Inventory of Chemical Substances (AICS)NoCanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)YesChinaInventory of Existing Chemical Substances in China (IECSC)No

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

Issue date May-23-2018

Version # 01

**Disclaimer** GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product,

or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

**Revision information** Product and Company Identification: Physical States

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data

Transport Information: Proper Shipping Name/Packing Group

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).