

Safety Data Sheet 5676905 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/19/2019 Version: 1.0

1.1. Identification Product form	
Product form	
	: Substance
Substance name	: Ethyl(trisphenyl)phosphonium bromide
CAS No	: 1530-32-1
Product code	: 5676-9-05
Formula	: C20H20BrP
Synonyms	: Methyltriphenylphosphonium bromide / Phosphonium, methyltriphenyl-, bromide (1:1)
Other means of identification	: MFCD00011838
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab 1.4. Emergency telephone number	bs.com
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Aquatic Acute 2 H401 - Toxic to	ause respiratory irritation o aquatic life o aquatic life with long lasting effects
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS06 GHS07 GHS09
Signal word (GHS-US)	GHS06 GHS07 GHS09 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	
	<ul> <li>Danger</li> <li>H301 - Toxic if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H332 - Harmful if inhaled</li> <li>H335 - May cause respiratory irritation</li> </ul>

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	lense P312 P321 P330 P332 P337 P362 P391 P403 P405	<ul> <li>+P351+P338 - If in eyes: Rinse cautious s, if present and easy to do. Continue rin</li> <li>Call a POISON CENTER or doctor/phy</li> <li>Specific treatment (see supplemental f</li> <li>Rinse mouth</li> <li>+P313 - If skin irritation occurs: Get med</li> <li>+P313 - If eye irritation persists: Get med</li> <li>+P364 - Take off contaminated clothing a</li> <li>Collect spillage</li> <li>+P233 - Store in a well-ventilated place.</li> <li>Store locked up</li> <li>Dispose of contents/container to an ap</li> </ul>	sing vsician if you fee irst aid instructio ical advice/atten dical advice/atten and wash it befo Keep container	l unwell ons on this label) ition ntion re reuse tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatic	on on in	gredients		
3.1. Substance				
Substance type	: Mono	constituent		
Name		Product identifier	%	Classification (GHS-US)
Ethyl(trisphenyl)phosphonium bromide (Main constituent)		(CAS No) 1530-32-1	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Full text of H-phrases: see section 16				·
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek		
	where	e possible). Move the affected personnel		
First-aid measures after inhalation	: Remo	possible). Move the affected personnel ove person to fresh air and keep comforta ation. Get immediate medical advice/atternation.		
	: Remo respir : Wash	ove person to fresh air and keep comfort ation. Get immediate medical advice/atte with plenty of soap and water. Get imme	ention. ediate medical a	g. If not breathing, give artificial
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<b>SECTION 6: Accidental release me</b>	easures		
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
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Protective equipment	6.1.2. For emergency responders Protective equipment : Do not attempt to take action without suitable protective equipment. For further information		
	refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment. Notify author	orities if product enters sewers or public waters.		
6.3. Methods and material for contain	ment and cleaning up		
For containment	: Stop leak if safe to do so.		
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good		
	ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, inclu	Iding any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		
SECTION 8: Exposure controls/pe	rsonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.		
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.		
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.		
Skin and body protection Respiratory protection	: Wear suitable protective clothing. : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory		
	Protection.		
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.		
<b>SECTION 9: Physical and chemica</b>			
9.1. Information on basic physical and	• •		
Physical state	: Solid		
Color	: No data available		
Odor Odor threshold	: No data available		
	: No data available : No data available		
pH Melting point	: 203 - 205 °C		

Freezing point

: No data available

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Boiling point	: No data available
Flash point	: > 200 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 371.251 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. **Other information**

No additional information available

## SECTION 10: Stability and reactivity

Reactivity No additional information available

#### **Chemical stability** 10.2.

10.1.

The product is stable at normal handling and storage conditions.

#### Possibility of hazardous reactions 10.3.

No additional information available

#### 10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

#### 10.5. **Incompatible materials**

Strong oxidizing agents.

#### Hazardous decomposition products 10.6.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

## **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity

: Oral: Toxic if swallowed. Inhalation: Harmful if inhaled.

Ethyl(trisphenyl)phosphonium bromide (1530-32-1)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	tional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information		

## Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN3077 Environmentally hazardous substances, solid, n.o.s., 9, III

- : UN3077
- : Environmentally hazardous substances, solid, n.o.s.
- : 9 Class 9 Miscellaneous hazardous material 49 CFR 173.140
- : 9 Class 9 (Miscellaneous dangerous materials)



- : III Minor Danger
- : Yes
- : Yes
- : 213 : 240
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.
	146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is
	designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
	335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the
	time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
	A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the
	following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:
	a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
	<ul> <li>b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2</li> <li>c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2</li> </ul>
	d. Fiberboard: 11G
	<ul> <li>e. Wooden: 11C, 11D and 11F (with inner liners)</li> <li>f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).</li> </ul>
	B54 - Open-top, sift-proof rail cars are also authorized. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1,
	21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and
	water-resistant liner. N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.
	T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their
	melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable
	tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank
	instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3077
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous compounds
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3077
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

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SECTION 15: Regulatory information		
15.1. US Federal regulations		
Ethyl(trisphenyl)phosphonium bromide (1530-32-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	PMN	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

## CANADA

Ethyl(trisphenyl)phosphonium bromide (1530-32-1)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	٦

### **EU-Regulations**

No additional information available

#### **National regulations**

Ethyl(trisphenyl)phosphonium bromide (1530-32-1) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## **SECTION 16: Other information**

#### Full text of H-phrases:

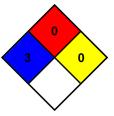
Acute toxicity (oral) Category 3
Acute toxicity (inhalation) Category 4
Hazardous to the aquatic environment - Acute Hazard Category 2
Hazardous to the aquatic environment - Chronic Hazard Category 2
Serious eye damage/eye irritation Category 2A
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Toxic if swallowed
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation
Toxic to aquatic life
Toxic to aquatic life with long lasting effects

NFPA	health	hazard
------	--------	--------

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard NFPA reactivity

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.