

# Safety Data Sheet per OSHA HazCom 2012

	1101101104 011 121 1012000
1 Identification	
Product identifier	
Product name: Phenyltrimethylammonium bromide	
Stock number: B25410 CAS Number:	
16056-11-4 EC number:	
240-202-8	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (8	66) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
Acute Tox. 3 H311 Toxic in contact with skin.	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS06	
Signal word Danger	
Hazard statements	
H301+H311 Toxic if swallowed or in contact with skin. H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
H315 May cause respiratory initiation. <b>Precautionary statements</b> P261 Avoid breathing dust/fume/gas/mist/vapours/sprav.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continu P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continu	ue rinsina
P361 Take oπ immediately all contaminated clothing.	ao mong.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2	
FIRE II Flammàbility = 1 ( REACTIVITY II) Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT <u>:</u> Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
16056-11-4 Phenyltrimethylammonium bromide	(Contd on nors a)
	(Contd. on page 2)

(Contd. on page 2)

# Identification number(s): EC number: 240-202-8

4 First-aid measures

# Description of first aid measures

General information Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Do not induce vomiting; immediately call for medical help. Information for doctor Most important symptoms and effects, both acute and delaved No further relevant information ave

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen bromide (HBr)

Nitrogen oxides (NOx) Ammonia

Ammonia Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

# 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation **Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling *Recautions for sale nanoung* Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. *Information about protection against explosions and fires:* No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Store away from water/moisture. Further information about storage conditions:

This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters

Components with limit values that require monitoring at the workplace: Not required. Additional information: No data

# Exposure controls

Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition.

(Contd. of page 1)

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# Product name: Phenyltrimethylammonium bromide

The selection of suitable gloves not only depends on the material, but also on guality. Quality will vary from manufacturer to manufacturer.	(Contd. of page 2)
Penetration time of glove material (in minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work clothing.	

## 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Crystalline Off-white Odor: Not determined Odor threshold: Not determined. Not applicable pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 215 °C (419 °F) (dec) Not determined Not determined Not applicable Not determined. Not determined Flash point: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: Not determined Not determined Danger of explosion: Explosion limits: Lower: Product does not present an explosion hazard. Not determined Upper: Vapor pressure: Not determined Not applicable. Not determined Vapor pressure. Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Not determined. Not applicable. Not applicable. Soluble Partition coefficient (n-octanol/water): Not determined. Viscosity Not applicable. dynamic: Not applicable. Not applicable. No further relevant information available. kinematic: Other information

# 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide Nitrogen oxides Ammonia 11 Toxicological information Information on toxicological effects

Information on toxicological effects Acute toxicity: Fatal in contact with skin. Fatal in svallowed. Danger through skin absorption. LD/LCSO values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Subacute to chronic toxicity: Inorganic bromides may produce depression, emaciation and in severe cases, psychosis and mental deterioration. Bromoderma, a bromide rash, often occurs when bromide inhalation or administration is prolonged. This rash is usually found on the face and resembles acne and furunculosis. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Lungs, Thorax, or Respiration. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits.

Safety Data Sheet per OSHA HazCom 2012	Page 4/5 Printing date 11/24/2015 Reviewed on 12/15/2008	
Product name: Phenyltrimethylammonium bromide		
Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. <b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable. <b>Other adverse effects</b> No further relevant information available.	(Contd. of page 3)	
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.	disposal.	
14 Transport information		
UN-Number DOT. IMDG. IATA	UN2811	
UN proper shipping name DOT IMDG, IATA	Toxic solids, organic, n.o.s. (Phenyltrimethylammonium bromide) TOXIC SOLID, ORGANIC, N.O.S. (Phenyltrimethylammonium bromide)	
Transport hazard class(es) DOT Class	6.1 Toxic substances.	
Label Class Label IMDG, IATA	6.1 6.1 (T2) Toxic substances 6.1	
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user         Warning: Toxic substances           Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional information:           Transport/Additional information:         DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (Phenyltrimethylammonium bromide), 6.1, III	
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS06 Signal word Danger Hazard statements H301+H311 Toxic if swallowed or in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H315 May cause respiratory irritation. H315 May cause respiratory irritation. H315 May cause respiratory irritation.		
Substance is not listed.	. Remove contact lenses, if present and easy to do. Continue rinsing. Inal/national/international regulations. Igency Toxic Substances Control Act Chemical substance Inventory. ances List (NDSL). riduals. tions (EC) No. 1907/2006. Substance is not listed. The Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
Annex XIV of the REACH Regulations (requiring Authorisation for use) Su	bstance is not listed. (Contd. on page 5) USA	

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# Product name: Phenyltrimethylammonium bromide

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:
RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods kegulations by the "International Air Transport Association" (IATA)
ICAC: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport Association
IATA: International Abstracts Service (division of the American Chemical Society)

USA