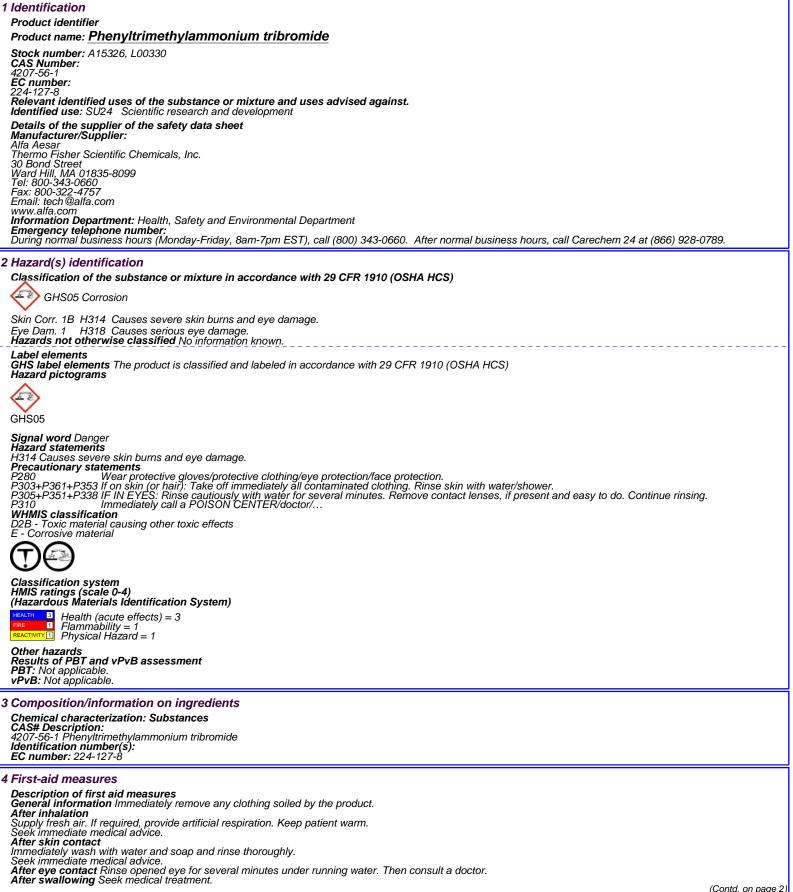


Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

# Product name: Phenyltrimethylammonium tribromide

Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eve damage

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 Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Hydrogen bromide (HBr)

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: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. 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 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 strong bases. 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 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. 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. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Tightly sealed goggles Full face protection: **Body protection:** Protective work clothing.

### 9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form: Powder Color Orange

(Contd. on page 3)

Product name: Phenyltrimethylamm	onium tribromide
	(Contd. of page
Odor: Odor threshold:	Irritating Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	112-117 °C (234-243 °F) Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper: Vapor pressure:	Not determined Not determined Not applicable.
Density: Relative density	Not determined Not determined
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water) Viscosity:	
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Reducing agents Bases Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen bromide Possibly Hydrogen cyanide (HCN)	mended storage conditions. To be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known t information available.
LD/LC50 values that are relevant for or Skin irritation or corrosion: Causes see Eye irritation or corrosion: Causes see Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: Inorganic bromides may produce depress bromide inhalation or administration is p Subacute to chronic toxicity: No effect Additional toxicological information:	evere skin burns. rious eye damage. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessments PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	her relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>t</b>
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.

(Contd. on page 4)

luct name: Phenyltrimethylammonium tribromide	
Incleaned packagings: Recommendation: Disposal must be made according to official regula	(Contd. of pa
Transport information	
JN-Number	
DOT, IMDG, IATA IN proper shipping name	UN3261
DOT MDG, IATA	Corrosive solid, acidic, organic, n.o.s. (Phenyltrimethylammonium tribromide) CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Phenyltrimethylammonium tribromide)
Fransport hazard class(es)	
007	
Class	8 Corrosive substances.
abel Class	8 (C4) Corrosive substances
abel NDG, IATA	8
<u>A</u>	
Class abel	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances Acids
ransport in bulk according to Annex II of MARPOL73/78 and the l	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	
	No
IN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation specific fo GHS label elements The product is classified and labeled in accordance lazard pictograms	UN3261, Corrosive solid, acidic, organic, n.o.s. (Phenyltrimethylammonium tribromide), 8, II
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IN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation specific for Safety, health and environmental regulations/legislation specific Safety and the several statements 280 Proceautionary statements 280 Proceautionary statements 280 Proceautionary statements 280 Wear protective gloves/protective clothing/eye prote 303+P361+P335 If on skin (or hair). Take off immediately all contamin 230 2305+P351+P338 IF IN EYES: Rinse cautiously with water for several 2310 1305-P351+P338 IF IN EYES: Rinse cautiously with water for several 2310 1410 components of this product are listed in the U.S. Environmental Proto XII components of this product are listed on the Canadian Non-Domestic SARA Section 313 (specific toxic chemical listings) Substance is not 2416 prop 65 - Developmental toxicity, female Substance is not listed. 270p 65 - Developmental toxicity, female Substance is not listed. 270p 65 - Developmental toxicity, male Substance is not listed. 270p 65 - Developmental toxicity, male Substance is not listed. 270p 65 - Developmental toxicity, male Substance is not listed. 270p 65 - Developmental toxicity, male Substance is not listed. 270p 65 - Developmental toxicity, male Substance is not listed. 270p 65 - Developmental toxicity, formale Substance is not listed. 270p 65 - Developmental toxicity, formale Substance is not listed. 270p 65 - Developmental toxicity, formale Substance is not listed. 270p 65 - Developmental toxicity, formale Substance is not list	UN3261, Corrosive solid, acidic, organic, n.o.s. (Phenyltrimethylammonium tribromide), 8, 11 or the substance or mixture ce with 29 CFR 1910 (OSHA HCS) ection/face protection. nated clothing. Rinse skin with water/shower. minutes. Remove contact lenses, if present and easy to do. Continue rinsing. tection Agency Toxic Substances Control Act Chemical substance Inventory. ic Substances List (NDSL). ot listed. filed individuals. <b>Regulations (EC) No. 1907/2006.</b> Substance is not listed. (VII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on use) Substance is not listed. at been carried out.

# Safety Data Sheet per OSHA HazCom 2012

Product name: Phenyltrimethylammonium tribromide

Page 5/5 Printing date 11/23/2015 Reviewed on 05/05/2010

(Contd. of page 4)

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHIMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CACGH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA