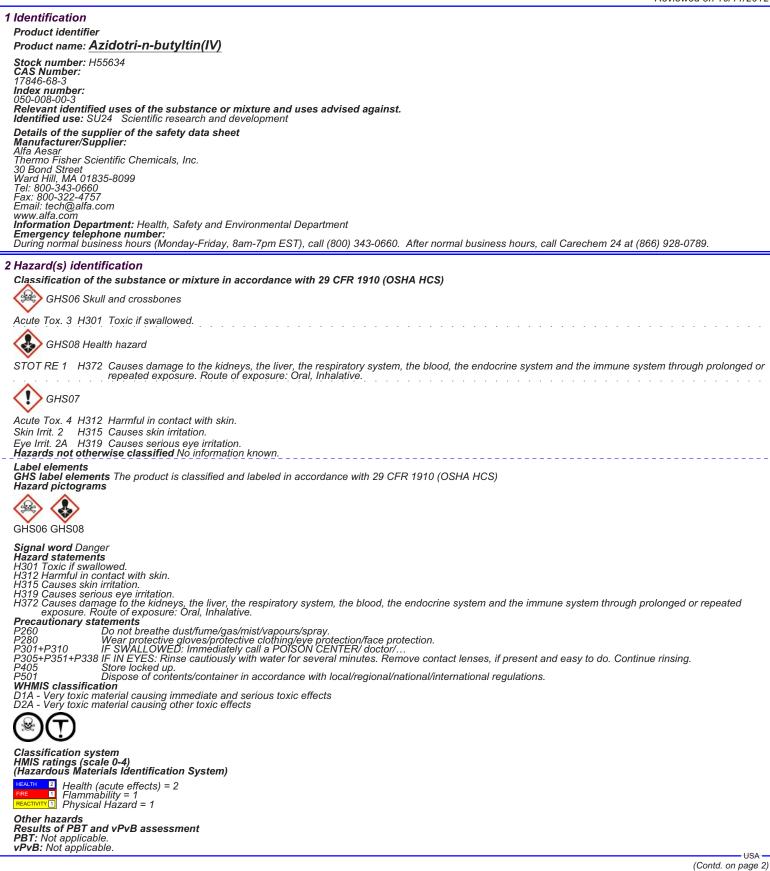


Safety Data Sheet per OSHA HazCom 2012



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(Contd. of page 1) 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 17846-68-3 Azidotri-n-butyltin(IV) Identification number(s): Index number: 050-008-00-3 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. Seek immediate medical advice. **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 syallowing Do not induce vomiting; immediately call for medical help. Information for doctor 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 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) Metal oxide fume 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. Environmental precautions: Do not allow material to be released to the environment without Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 managing 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. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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 eves and skin. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. 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. (Contd. on page 3)

Product name: Azidotri-n-butyltin(IV)

Penetration time of glove material (in minutes) Not determined

(Contd. of page 2)

Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor threshold:	
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	113 °C (235 °F) Not determined Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water, Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not determined 1.212 g/cm³ (10.114 lbs/gal) Not determined. Not determined.
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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Metal oxide fume	
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful in contact with skin. Toxic if swallowed. Danger through skin absorption. LD/LC50 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. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure:	

Specific target organ system toxicity - repeated exposure: Causes damage to the kidneys, the liver, the respiratory system, the blood, the endocrine system and the immune system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: 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. Ecotoxical effects: Remark: Very toxic for aquatic organisms Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment. Toxicity

(Contd. on page 4)

Product name: Azidotri-n-butyltin(IV) (Contd. of page 3) Very toxic for aquatic organisms Results of PBT and vPvB assessment PBT: Not applicable. VPVB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN2788 UN proper shipping name Organotin compounds, liquid, n.o.s. (Azidotri-n-butyltin(IV)) ORGANOTIN COMPOUND, LIQUID, N.O.S. (Azidotri-n-butyltin(IV)) IMDG, IATA Transport hazard class(es) DOT Class 6.1 Toxic substances. 6.1 Label Class 6.1 (T3) Toxic substances 6.1 Labe IMDG, IATA 6.1 Toxic substances. Class Label Packing group DOT, IMDG, IATA 111 Environmentally hazardous substance, liquid Environmental hazards: 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: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN2788, Organotin compounds, liquid, n.o.s. (Azidotri-n-butyltin(IV)), 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 P. GHS06 GHS08 Signal word Danger Hazard statements H301 Toxic if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H372 Causes damage to the kidneys, the liver, the respiratory system, the blood, the endocrine system and the immune system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.

 P260
 Do not breathe dust/fume/gas/mist/vapours/spray.

 P280
 Wear protective gloves/protective clothing/eve protection/face protection.

 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. Continue rinsing.

 P405
 Store locked up.

 P501
 Dispose of contents/contained in a contact in the first doct of the Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 National regulations
 This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

 This product s not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.

 California Proposition 65

 Prop 65 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Other regulations, limitations and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

 (Contd. on page 5)

USA

Product name: Azidotri-n-butyltin(IV)

(Contd. of page 4) The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. 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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: 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 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 CAS: Chemical Abstrats Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration So percent LD50: Lethal concentration of So percent LD50: Lethal dose, 50 percent CAGIH: American Chererece of Governmental Industrial Hygienists (USA) WFP: National Safety and Health Administration (USA) MFP: National Toxicology Program (USA) MFP: Marional Toxicology Program (USA) MFP: Marional Toxicology Program (USA) MFP: Marional Toxicology Program (USA)