



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	Tetra-i-butylgermane, 99%
CAS #	Not available
Catalog #	0320130
Chemical family	Alkyl metal

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
Tetra-i-butylgermane	99	NA	NA	Xn F	11 20/21/22

SECTION 3: Hazard Identification

Emergency overview	Flammable. Harmful by inhalation, in contact with skin and if swallowed.
Eye contact	Causes eye irritation.
Skin contact	May cause irritation of the skin. Harmful if absorbed through the skin. May cause dermatitis.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion	The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.
Chronic health effects	Not available.

SECTION 4: First Aid Measures

Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.
Skin exposure	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation	Remove from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance.
Ingestion	If victim is conscious, give 2-4 cupfuls of water. Get medical aid.

SECTION 5: Fire Fighting Measures

General information	If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Vapors can travel to a source of ignition and flash back. Flammable liquid and vapor. Emits toxic fumes under fire conditions.
Extinguishing media	Use water spray, carbon dioxide, dry powder or foam.

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or other inert material and swept up.
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SECTION 7: Handling and Storage	
Handling	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use in a chemical fume hood.
Storage	Store in a cool, dry place. Store in a tightly closed container. Keep away from heat, sparks, and open flame.
SECTION 8: Exposure Controls and Personal Protection	
Eye protection	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin protection	Wear protective gloves.
Ventilation	Handle material only in an efficient fume hood.
Respirator	If ventilation is not available a respirator should be worn. The use of respirators requires Respirator Protection Program to be in compliance with 29CFR 1910.134.
SECTION 9: Physical and Chemical Properties	
Appearance	Colorless liq.
Odor	NA
Melting point	NA
Boiling point	134-135 °C (17 mmHg)
Flash point	NA
Specific gravity	NA
Molecular formula	C16H36Ge
Molecular weight	301.07
SECTION 10: Stability and Reactivity	
Stability	Air and moisture stable liq.
Hazardous polymerization	No hazardous polymerization
Conditions to avoid	Incompatible materials.
Incompatibilities with other materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, germanium oxide and organic fumes.
SECTION 11: Toxicological Information	
RTECS Data	No data available.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Teratogenic effects	No data available.
SECTION 12: Ecological Information	
Ecological information	No information available.
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
Shipping name (CFR)	Flammable liquid, N.O.S.
Hazard class (CFR)	3
Additional hazard class (CFR)	NA
Packing group (CFR)	III
UN ID number (CFR)	1993
Shipping name (IATA)	Flammable liquid, N.O.S.
Hazard class (IATA)	3
Additional hazard class (IATA)	NA
Packing group (IATA)	III
UN ID number (IATA)	1993
SECTION 15: Regulatory Information	
TSCA	Not listed in the TSCA inventory.
SARA	Not reportable under SARA Title 313
SECTION 16: Other Information	
Preparation date	19.03.08
Revision date	19.03.08
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