

Material Safety Data Sheet Germanium, powder, 99.999%

MSDS# 95335

MSDS Name:

Synonyms:

Catalog Numbers:

Section 1 - Chemical Product and Company Identification Germanium, powder, 99.999% AC193110000, AC193110100 None.

Acros Organics BVBA Company Identification: Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium Acros Organics One Reagent Lane Company Identification: (USA) Fair Lawn, NJ 07410 For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11 Emergency Number, Europe: +32 14 57 52 99 **Emergency Number US:** 201-796-7100 CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#:	7440-56-4				
Chemical Name:	Germanium				
%:	99.999				
EINECS#:	231-164-3				

Hazard Symbols:None listedRisk Phrases:None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! May cause eye, skin, and respiratory tract irritation. Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion:	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If

conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.					
Notes to Physician:						
		Section 5	- Fire Fighting Measures			
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.					
Extinguishing Media:	Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.					
Autoignition Temperature:						
Flash P	oint: Not appl	icable.				
Explosion Limits: Lower: Not available						
Explosion Limits: Upper: Not available						
NFPA Rating: health: 1; flammability: 0; instability: 0;						
		Section 6 - A	ccidental Release Measure	es		
General Information:	Use proper personal protective equipment as indicated in Section 8.					
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.					
Section 7 - Handling and Storage						
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid Handling: contact with eyes, skin, and clothing. Take precautionary measures against static discharges. Keep container tightly closed. Avoid ingestion and inhalation.						
Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.						
Section 8 - Exposure Controls, Personal Protection						
Chemica	l Name	+	NIOSH	OSHA - Final PELs		

OSHA Vacated PELs: Germanium: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Granules

Color: grey

Odor: Not available

pH: Not available

Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: 2830 deg C (5,126.00°F) Freezing/Melting Point: 937 deg C (1,718.60°F) Decomposition Temperature: Not available Solubility in water: insoluble Specific Gravity/Density: 5.3500g/cm3 Molecular Formula: Ge Molecular Weight: 72.59 Section 10 - Stability and Reactivity Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Incompatible materials, dust generation, excess heat. Incompatibilities with Other Materials Not available Hazardous Decomposition Products Excess heat. Hazardous Polymerization Will not occur. Section 11 - Toxicological Information RTECS#: CAS# 7440-56-4: LY5200000 LD50/LC50: RTECS: Not available. Germanium - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity: Other: See actual entry in RTECS for complete information. Section 12 - Ecological Information Not available Section 13 - Disposal Considerations Dispose of in a manner consistent with federal, state, and local regulations. Section 14 - Transport Information US DOT Shipping Name: Please contact Fisher Scientific for shipping information Hazard Class: UN Number: Packing Group: Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group: Section 15 - Regulatory Information European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols:Not available **Risk Phrases:** Safety Phrases: S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7440-56-4: Not available

Canada

CAS# 7440-56-4 is listed on Canada's NDSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7440-56-4 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7440-56-4 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 9/02/1997 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.