

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc 7 Mulliken Way Newburyport, MA 01950-4098 U.S.A. www.strem.com
 Strem Customer Service
 (978) 499-1600

 CHEMTREC (Emergency Only)
 (800) 424-9300

 Poison Center
 (800) 562-8236

Section 1: Product Identificat	ion
Chemical Name:	Germanium (IV) selenide (99.999%-Ge) PURATREM
Product Number:	93-3224
CAS Registry Number:	12065-11-1
Formula:	GeSe2
EINECS Number:	235-063-5
Chemical Family:	metal chalcogenides
Synonym:	Germanium diselenide; Diselenogermanium

Section 2: C	composition and Information on Ing	gredients		
Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title compound	12065-11-1	100%	0.2mg/m3 (as Se)	0.2mg/m3 (as Se)

Section 3: Hazards Identif	ication
Emergency Overview:	May be irritating to skin, eyes and respiratory tract. May be harmful if swallowed. Reaction with mineral acids releases toxic hydrogen selenide fumes.
Primary Routes of Exposure:	Ingestion, inhalation
Eye Contact:	May cause slight to mild irritation of the eyes.
Skin Contact:	May cause slight to mild irritation of the skin.
Inhalation:	May be irritating to the nose, mucous membranes and respiratory tract.
Ingestion:	No specific information available on the physiological effects of ingestion. May be harmful if swallowed.
Acute Health Affects:	May be harmful if swallowed. Reaction with mineral acids releases toxic hydrogen selenide fumes. May cause shortness of breath, garlic odor, chills, and headache.
Chronic Health Affects:	Prolonged exposure to selenium compounds may cause dermatitis, diarrhea, liver damage, nervous disorders, lameness, and loss of vitality.
NTP:	No
IARC:	No
OSHA:	No

SECTION 4: First Aid Measures	
Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area immediately with water. Remove contaminated clothing if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.



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sures
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carbon dioxide, dry powder or foam
If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self- contained breathing apparatus and full protective clothing.
If involved in a fire this material may emit irritating fumes.
No unusual fire or explosion hazard.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures:

Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7: Handling and Sto	rage
Handling and Storage:	Store material in a tightly sealed container. Keep away from heat and moisture.

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 clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.
Ventilation:	Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator:	If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator
Respirator.	Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation:	Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Additional Protection:	No additional protection required.

SECTION 9: Physical a	nd Chemical Properties	
Color and Form:	orange xtl	
Molecular Weight:	230.51	
Melting Point:	707°	
Boiling Point:	no data	
Vapor Pressure:	no data	
Specific Gravity:	4.56	
Odor:	none	
Solubility in Water:	insoluble	

SECTION 10: Stability and Reactivity

-	-
Stability:	air and moisture stable
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	none
Incompatibility:	strong mineral acids and oxidizing agents
Decomposition Products:	selenium oxide, germanium oxide and hydrogen selenide (in the presence of mineral acids)



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SECTION 11: Toxicological Information

RTECS Data:	No information available in the RTECS files.
Carcinogenic Effects:	no data
Mutagenic Effects:	no data
Tetratogenic Effects:	no data

SECTION 12: Ecological Information

Ecological Information:

No information available

SECTION 13: Disposal Considerations

Dianaaal	
Disposal	

Dispose of according to federal, state, and local regulations.

SECTION 14: Transportation

Shipping Name (CFR):	Non-hazardous
Hazard Class (CFR):	NA
Additional Hazard Class (CFR):	NA
Packaging Group (CFR):	NA
UN ID Number (CFR):	NA
Shipping Name (IATA):	Non-hazardous
Hazard Class (IATA):	NA
Additional Hazard Class (IATA):	NA
Packaging Group (IATA):	NA
UN ID Number (IATA):	NA

SECTION 15: Regulatory	Information
TSCA:	Listed in the TSCA inventory
SARA (Title 313):	See category code N725 for reporting.
Second Ingredient:	none
Third Ingredient:	none

SECTION 16: Other Information The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Disclaimer: Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. Preparation Date: 11/04/2004 **Revision Date:** 12/14/2011 Strem Chemicals, Inc. Strem Chemicals, Inc. Strem Chemicals, Inc. Strem Chemicals UK, Ltd. 15, rue de l'Atome, Z.I. Newton Hall 7 Mulliken Way Postfach 1215 Newburyport, MA 01950-4098 USA 67800 BISCHHEIM (France) **Town Street** 77672 KEHL (Germany)

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