

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

									0,7,0,1	2017
1. P	RODUCT AND COMPANY I	DENTIFICATION								
1.1	Product identifiers									
·	Product name Brand	Germaniu	m ·		. 11	1			1	
· · .	CAS-No.	: 7440-56-4				· · .			· · · .	
2	Relevant identified uses of t	the substance or mix	ture and u	ses advised	agains	t				
	Identified uses	: Laboratory che	micals, Syr	nthesis of sub	ostances	5				
 3	Details of the supplier of the	e safety data sheet					÷	:**	· ·	
۰	Company	Stanford Adva Materials 23661 Birtche Lake Forest, O	er Dr.			1			5	
۰۰.	Telephone	USA : +1 (949) 407-	· · · .		÷.,	11		1	· · .	
	Fax	: +1 (949) 812-	6690							
4	Emergency telephone numb	ber			111			: • •		
	Emergency Phone #	: +1 (949) 407-8	8904							
2. H	AZARDS IDENTIFICATION Classification of the subst	ance or mixture	1 1	н н Н		1.1	н н н		1	
	Not a hazardous substance	or mixture.		· .	:		· .	:		
2	GHS Label elements, includ	ing precautionary st	atements							
	Not a hazardous substance	or mixture.								
3	Hazards not otherwise class	sified (HNOC) or not	covered by	y GHS - none)		:	111	н н 1	
3. C	OMPOSITION/INFORMATIO	ON ON INGREDIENT	S							
	Substances Formula Molecular weight	: Ge : 72.64 g/mol	1		. * *	1			1	
	CAS-No. EC-No.	: 72.04 g/mor : 7440-56-4 : 231-164-3	· · · ·	1	1.	11	1	1	· · .	
	No components need to be	disclosed according t	to the appli	cable regula	tions.					
			· · ·	÷						
	IRST AID MEASURES		·	1			1		·	
	Description of first aid mea									
۰.	General advice Move out of dangerous area	': ', I.			1	11	1		· · ·	
									Page 1	of

If inhaled If breathed in, move person into tresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with scap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. 2. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 3. Indication of any immediate medical attention and special treatment needed No data available 5.FIREFIGHTING MEASURES 1.Extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 2. Special hazards arising from the substance or mixture No data available 3. Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. 4. Further information No data available 6. ACCIDENTAL RELEASE MEASURES 7. Personal precautions, protective equipment and emergency procedures Avoid dust formation. No special environmental precautions required. 3. Methods and naterials for containment and cleaning up											
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Page 2 of					t values.						
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8.2 Exposure controls

Appropriate engineering controls General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: chips Colour: grey, white	· .	1	1	· · .		· · .	•
b)	Odour	odourless							
c)	Odour Threshold	No data available							
d) [рН	No data available							
e)	Melting point/freezing point	Melting point/range:							
f)	Initial boiling point and boiling range	2,830 °C (5,126 °F)	- lit.						
g)	Flash point	Not applicable	· · .			· · .		· · .	1
h)	Evaporation rate	No data available							
i)	Flammability (solid, gas)	No data available							
								Page 3 of	7

·		e ja en			·			·			·	
	j)	Upper/lower flammability or	No data	available								
· · · ·	k)	explosive limits Vapour pressure	No data	available	111			· · · ·			11	
	k))	Vapour density		available								
	") m)			nL at 25 °C) (77 °F))						
	· · ·	Water solubility	insolubl									
	n)	-										
·	o)	Partition coefficient: n- octanol/water		available	1.1			1			1.1	
	p)	Auto-ignition temperature	No data	available		· .	;		· .	:		
	q)	Decomposition temperature	No data	available	1			1				
	r)	Viscosity	No data	available								
	s)	Explosive properties	No data	available						1.1.1		
	t)	Oxidizing properties	No data	available								
9.2		r safety information ata available			1		11	1		11	1	
10.	STAB	ILITY AND REACTIVIT	Y			1						1
10.1	Reac No da	tivity ata available										
10.2		nical stability e under recommended s	storage cond	ditions.			:**			:**		
10.3		ibility of hazardous re ata available	actions									
10.4	Cond	litions to avoid	1									
		ata available										
10.5		npatible materials g oxidizing agents, Halc	ogens, Wate	r, Sulfuric	acid, Mo	olten alkal	i metals, N	litrates, (Carbonate	S		
10.6	Haza Other	rdous decomposition rdous decomposition pro- decomposition product event of fire: see sectio	oducts form s - No data		ire cond	itions G	ermanium	oxides	:	:		;
11.	τοχία	COLOGICAL INFORMA	TION									
11.1	l Info	ormation on toxicologic	al effects									
· · .		ute toxicity ata available		÷.	· · .	1	1	11	1		· · .	
	Derm	al: No data available										
	No da	ata available				:	111			: • •		
		corrosion/irritation ata available	ī			i						Ĩ
1		us eye damage/eye irr ata available	itation		1		. **	1.1		. **	1	
· · .		iratory or skin sensitis ata available	sation	÷.	•••						· · .	· .
	No da	ata available							·			

Page 4 of 7

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: LY5200000 Liver injury may occur., Kidney injury may occur., Blood disorders, Cough, Difficulty in breathing Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence **12. ECOLOGICAL INFORMATION** 12.1 Toxicity No data available 12.2 Persistence and degradability No data available 12.3 **Bioaccumulative potential** No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects No data available **13. DISPOSAL CONSIDERATIONS** 13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachus No compor					Right to	Know A	Act.			111	
Pennsylva	nia Right	To Kno	w Compo	onents							
Germani	um				· · ·		CAS-No. 7440-56-4	·	Revisior	n Date 👘	
				1	· · .		CAS-No.	· · .	Revisior	Date	· · .

7440-56-4

CAS-No.

7440-56-4

Revision Date

New Jersey Right To Know Components

Germanium

Germanium

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	
Fire Hazard:	
Reactivity Hazard:	

2 0 0

Further information

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