

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Name of the substance	Germainum Sulfide (GeS2)
Identification number	234-704-6 (EC number)
Synonyms	None.
Document number	1KA
Materion Code	1KA
Issue date	11-January-2018
Version number	01
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	Not available.
Uses advised against	None known.
1.3. Details of the supplier of	the safety data sheet
Supplier	
Company name	Materion Advanced Chemicals Inc.
Address	407 N. 13th Street
	1316 W. St. Paul Avenue
	Milwaukee, WI 53233
	United States
Division	Milwaukee
Telephone	414.212.0257
e-mail	advancedmaterials@materion.com
Contact person	Noreen Atkinson
1.4. Emergency telephone number	
SECTION 2: Hazards ide	entification
2.1. Classification of the subs	tance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary	Not available.
2.2. Label elements	
Label according to Regulation	(EC) No. 1272/2008 as amended
Contains:	Germanium Sulfide
Hazard pictograms	None.
Signal word	None.
Hazard statements	The substance does not meet the criteria for classification.
Precautionary statements	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Supplemental label information	None.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information					
Chemical name	%	CAS-No. / EC	REACH Registration No.		Notes
Chemical name	70	No.	REACTI REGISTIATION NO.	INDEX NO.	Notes
Germanium Sulfide	90 - 100	12025-32-0 234-704-6	-	-	
Classification: -					
SECTION 4: First aid mea	asures				
General information	Not available.				
4.1. Description of first aid me	asures				
Inhalation	Not available.				
Skin contact	Not available.				
Eye contact	Not available.				
Ingestion	Not available.				
4.2. Most important symptoms and effects, both acute and delayed	Not available.				
4.3. Indication of any immediate medical attention and special treatment needed	Not available.				
SECTION 5: Firefighting	measures				
General fire hazards	Not available.				
5.1. Extinguishing media					
Suitable extinguishing media	Not available.				
Unsuitable extinguishing media	Not available.				
5.2. Special hazards arising from the substance or mixture	Not available.				
5.3. Advice for firefighters Special protective equipment for firefighters	Not available.				
SECTION 6: Accidental re	elease measure	S			
6.1. Personal precautions, pro	tective equipment	and emergency	procedures		
For non-emergency personnel	Not available.				
For emergency responders	Not available.				
6.2. Environmental precautions	Not available.				
6.3. Methods and material for containment and cleaning up	Not available.				
6.4. Reference to other sections	Not available.				
SECTION 7: Handling and	d storage				
7.1. Precautions for safe handling	Not available.				
7.2. Conditions for safe storage, including any incompatibilities	Not available.				
7.3. Specific end use(s)	Not available.				
SECTION 8: Exposure co	ntrols/persona	l protection			
8.1. Control parameters					
Occupational exposure limits	No exposure limits	-	.,		
Biological limit values	No biological expos	sure limits noted fo	r the ingredient(s).		

Recommended monitoring procedures	Not available.		
Derived no effect levels (DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	Not available.		
Individual protection measures, such as personal protective equipment			
General information	Not available.		
Eye/face protection	Not available.		
Skin protection			
- Hand protection	Not available.		
- Other	Not available.		
Respiratory protection	Not available.		
Thermal hazards	Not available.		
Hygiene measures	Not available.		
Environmental exposure controls	Not available.		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Not available.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	cplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Not available.
10.3. Possibility of hazardous reactions	Not available.
10.4. Conditions to avoid	Not available.
10.5. Incompatible materials	Not available.
10.6. Hazardous decomposition products	Not available.

SECTION 11: Toxicological information

General information	Not available.		
Information on likely routes of exposure			
Inhalation	Not available.		
Skin contact	Not available.		
Eye contact	Not available.		
Ingestion	Not available.		
Symptoms	Not available.		
11.1. Information on toxicological effects			
Acute toxicity	No data available.		
Skin corrosion/irritation	Not available.		
Serious eye damage/eye irritation	Not available.		
Respiratory sensitisation	Not available.		
Skin sensitisation	Not available.		
Germ cell mutagenicity	Not available.		
Carcinogenicity			
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)			

Not listed.

Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	No toxicity data noted for the ingredient(s).
12.2. Persistence and degradability	Not available.
12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods. **RTD**

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

National regulations	Not available.
15.2. Chemical safety	Not available.
assessment	

SECTION 16: Other information

List of abbreviations

Not available.

Not available.

Information on evaluation method leading to the classification of mixture