## otto chemie pvt ltd

An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

### MATERIAL SAFETY DATA SHEET (MSDS)

## **SECTION 1. Product identifiers**

Product name: Gadolinium silicide, 99.9% Product Code: G 1570 CAS No : 12134-75-7

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD 101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate. Chinchpada, Vasai East, Waliv, Maharashtra 401208. Email info@ottokemi.com

1.4. Emergency telephone number Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Substances and mixtures which in contact with water emit flammable gases, (Category 3) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word H261 Precautionary Statements P231 + P232

### P280

P370 + P378

### P501

Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements Precautionary Statements Supplemental Hazard Statements 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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H261: In contact with water releases flammable gas.

Warning

In contact with water releases flammable gas.

Handle and store contents under inert gas. Protect from moisture. Wear protective gloves/ protective clothing/ eye protection/ face protection.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Dispose of contents/ container to an approved waste disposal plant. none

none none none

Warning

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### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures Synonyms : Gadolinium germanium silicide Formula : Gd5Ge2Si2 Molecular weight : 987,70 g/mol No components need to be disclosed according to the applicable regulations.

### **SECTION 4: First aid measures**

4.1 Description of first-aid measures General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses. If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed No data available

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media Water Foam 5.2 Special hazards arising from the substance or mixture silicon oxides Germanium oxides gadolinium oxides Combustible. May not get in touch with: Water Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters In the event of fire, wear self-contained breathing apparatus. 5.4 Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,

consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

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### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling Advice on safe handling Keep workplace dry. Do not allow product to come into contact with water. Hygiene measures Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Keep away from heat and sources of ignition. Never allow product to get in contact with water during storage. Storage class Storage class (TRGS 510): 4.3: Hazardous materials, which set free flammable gases upon contact with water 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls 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). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L **Body Protection** protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. Risk of explosion. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state solid

- b) Color
- c) Odor
- d) Melting

solid No data available No data available Melting point/ range: 1.675 °C

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point/freezing point e) Initial boiling point and boiling range f) Flammability (solid, gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH l) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available No data available

No data available

No data available

No data available No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

No data available 5,7 g/mL at 25 °C No data available No data available

No data available

Not classified as explosive. none

### SECTION 10: Stability and reactivity

10.1 Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) . 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid Moisture. 10.5 Incompatible materials Strong oxidizing agents, Strong acids, Oxygen, Halogens 10.6 Hazardous decomposition products In the event of fire: see section 5

## SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Othonic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

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### **SECTION 12: Ecological information**

SECTION 12: Eco	ological information					
12.1 Toxicity						
Mixture						
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						
This substance/mixture contains no components considered to be either persistent,						
bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at						
levels of 0.1% or higher.						
12.6 Endocrine disrupting properties						
Product:	1 51 1					
Assessment	: The substance/mix	xture does not conta	in components			
	considered to have endocrine disrupting properties					
	according to REACH Article 57(f) or Commission					
	Delegated regulation (EU) 2017/2100 or Commission					
Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects						
No data available	e ellects					
Components						
Components						
SECTION 13. Dis	posal consideration					
13.1 Waste treatment methods						
No data available						
	0		all of the light			
SECTION 14: Tra	nsport information			1		
14.1 UN number			Most B	De se se		
ADR/RID: 3208			IMDG: 3208		IATA: 3208	
14.2 UN proper sh	inning name					
ADR/RID : METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Gadolinium)						
	IMDG : METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Gadolinium) IATA : Metallic substance, water-reactive, n.o.s. (Gadolinium)					
14.3 Transport ha		, water-reactive, n.t	.s. (Gadoimium)			
ADR/RID: 4.3	zalu class(es)		IMDG: 4.3		IATA: 4.3	
			IVIDG. 4.3		IATA. 4.5	
14.4 Packaging gr	oup					
ADR/RID: III			IMDG: III		IATA: III	
14.5 Environment	al nazaros					
ADR/RID: no			IMDG Marine pollutant: no		IATA: no	
14.6 Special preca						
Tunnel restriction		: (E)				
Further informatio	n	: No data available				
	<u> </u>					
SECTION 15: Regulatory information						
15.1 Safety, health and environmental regulations/legislation specific for the						
substance or mixture						
This material safety data sheet complies with the requirements of Regulation (EC) No.						
1907/2006.						
Other regulations						
Take note of Dir 94/33/EC on the protection of young people at work.						
15.2 Chomical Safety Assessment						

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all

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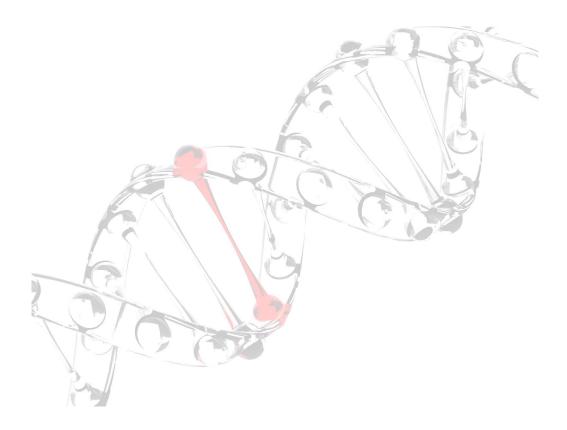
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precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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