GADOLINIUM (III) OXIDE EXTRA PURE MSDS



CAS-No.: 12064-62-9 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Produ	ct form	: Substance	
CAS-N	No.	: 12064-62-9	
Produ	ct code	: 03897	
Formu	ıla	: Gd2O3	
Chem	ical structure		
		Gu ₂ U	,

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R36 Full text of R-phrases: see section 16 Safety Data Sheet

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

2.3.	Other hazards	

No additional information available

3.1. Substances Name : GADOLINIUM (III) OXIDE Extra Pure	SECTIO	ON 3: Composition/informati	on on ingredients
Name : GADOLINIUM (III) OXIDE Extra Pure	3.1.	Substances	
	Name		: GADOLINIUM (III) OXIDE Extra Pure
CAS-No. : 12064-62-9	CAS-No	Э.	: 12064-62-9

Full text of R- and H-statements: see section 16

3.2.	Mixtures	s													
Not app	plicable														

SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.				
First-aid measures after skin contact	 Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. 				
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.				
First-aid measures after ingestion	Rinse mouth. Do not induce vomiting. Get medical advice/attention.				
4.2. Most important symptoms and ef	fects, both acute and delayed				
No additional information available					

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide. Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

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5.3.	Advice for firefighters		
Protectio	on during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	N 6: Accidental release measures	s	
6.1.	Personal proceptions, protective		quipment and emergency procedures
			dupment and emergency procedures
6.1.1.	For non-emergency personnel		
Emerge	ncy procedures	:	Evacuate unnecessary personnel. Do not breathe dust.
6.1.2.	For emergency responders		
Protectiv	ve equipment	:	Use personal protective equipment as required.
Emerge	ncy procedures	:	Ventilate area.
6.2.	Environmental precautions		
Avoid re	lease to the environment.		
6.3.	Methods and material for contain	nn	aent and cleaning un
	s for cleaning up		Collect spillage. On land, sweep or shovel into suitable containers.
Methous	s for cleaning up	•	
6.4.	Reference to other sections		
No addi	tional information available		
SECTIO	N 7: Handling and storage		
7.1.	Precautions for safe handling		
	ons for safe handling		Avoid contact with skin and eyes. Do not breathe dust.
Hygiene	measures	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2.	Conditions for safe storage, incl	uc	ling any incompatibilities
Storage	conditions	:	Keep container tightly closed.
7.3.	Specific end use(s)		
No addi	tional information available		
SECTIC	N 8: Exposure controls/personal	р	rotection
8.1.	Control parameters		
	tional information available		
ino audi			

8.2. Exposure controls			
Hand protection	: Protective gloves		
Eye protection	: Chemical goggles or safety glasses		
Skin and body protection	: Wear suitable protective clothing		
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			

: Solid

Physical state

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Molecular mass	: 362.49 g/mol
Colour	: White to cream.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 1900 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 12.49
Relative density	: No data available
Density	: 7.407 g/ml at 20 °C
Solubility	: Water: Insoluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other infor	mation
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No additional information available

SECTIO	N 10: Stability and reactivity
10.1.	Reactivity
No addi	ional information available
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials					
No additional information available					
10.6. Hazardous decomposition products					
No additional information available					
SECTION 11: Toxicological information					
11.1. Information on toxicological effe	ects				
Acute toxicity	: Not classified				
Skin corrosion/irritation	: Not classified				
Serious eye damage/irritation	: Not classified				
Respiratory or skin sensitisation	: Not classified				
Germ cell mutagenicity	: Not classified				
Carcinogenicity	: Not classified				
Reproductive toxicity	: Not classified				
STOT-single exposure	: Not classified				
STOT-repeated exposure	: Not classified				
Aspiration hazard	: Not classified				
SECTION 12: Ecological information					
12.1. Toxicity					
No additional information available					
12.2. Persistence and degradability					
No additional information available					
12.3. Bioaccumulative potential					
No additional information available					
12.4. Mobility in soil					
No additional information available					
12.5. Results of PBT and vPvB assess	sment				
No additional information available					

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12.6.	Other adverse effects					
No addit	No additional information available					
SECTIO	N 13: Disposal considerations					
13.1.	Waste treatment methods					
No addit	No additional information available					
SECTIO	SECTION 14: Transport information					

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
	· Natangliashia
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
	. Net environte
Transport hazard class(es) (ADR)	: Not applicable
IMDC	
	. Net englische
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
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14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea No data available

- Air transport No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

GADOLINIUM (III) OXIDE Extra Pure is not on the REACH Candidate List GADOLINIUM (III) OXIDE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 4465)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

R36	Irritating to eyes
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product