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 : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

## MATERIAL SAFETY DATA SHEET (MSDS)

## SECTION 1. Product identifiers

Product name: Gadolinium(III) fluoride, 99.99% Product Code: G 1197 CAS No : 13765-26-9

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 Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram none Signal Word none Hazard statement(s) none Precautionary none statement(s) Supplemental Hazard none Statements EUH210 Safety data sheet available on request. 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. Weak hydrogen fluoride-releaser

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

3.1 Substances	
Formula	: F3Gd
Molecular weight	: 214,25 g/mol
CAS-No.	: 13765-26-9
EC-No.	: 237-369-4

Component	Classification	Classification
gadolinium trifluoride		
CAS-No. 13765-26-9		<= 100 %
EC-No. 237-369-4		

### SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical

treatment. Symptoms may be delayed up to 24 hours depending on the concentration of

HF. After decontamination with water, further damage can occur due to

penetration/absorption of the fluoride ion. Treatment should be directed toward binding the

fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5%

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calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for, since they can occur after exposure. If inhaled After inhalation: fresh air. In case of skin contact First treatment with calcium gluconate paste. 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 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Hvdrogen fluoride gadolinium oxides Not combustible. Ambient fire may liberate hazardous vapours. 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. 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. 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. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

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Tightly closed. Dry.			
Storage class			
Storage class (TRGS 510): 11: Combustible Solids			
7.3 Specific end use(s)			
Apart from the uses mentioned in section 1.2 no other spec	ific 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	er appropriate		
government standards such as NIOSH (US) or EN 166(EU)	. Safety glasses		
Skin protection			
This recommendation applies only to the product stated in t	he 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 state	d in EN374 please		
contact the supplier of CE-approved gloves (e.g. KCL Gmbl	H, 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			
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 P2			
The entrepeneur has to ensure that maintenance, cleaning	and testing of respiratory		
protective devices are carried out according to the instruction			
These measures have to be properly documented.			
Control of environmental exposure	12		
Do not let product enter drains.			
SECTION 9: Physical and chemical properties			
9.1 Information on basic physical and chemical properties			
a) Physical state	powder		
b) Color	white		
c) Odor	No data available		
d) Melting	No data available		
point/freezing point			
e) Initial boiling point	No data available		
and boiling range	Nie dete zweitele		
f) Flammability (solid,	No data available		
gas)	No data available		
g) Upper/lower	No data available		
flammability or explosive limits			
h) Flash point	No data available		
i) Autoignition	No data available		
temperature			
j) Decomposition	No data available		
j) Decomposition			

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temperature

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k) pH I) 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 Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

No data available No data available No data available No data available

No data available

No data available No data available

## **SECTION 10: Stability and reactivity**

10.1 Reactivity No data available 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 no information available 10.5 Incompatible materials Strong reducing agents 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 other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

### SECTION 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 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: : The substance/mixture does not contain components Assessment considered to have endocrine disrupting properties

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according to REACH Article 5 Delegated regulation (EU) 20 Regulation (EU) 2018/605 at	17/2100 or Commission	
12.7 Other adverse effects No data available	ũ	
SECTION 13: Disposal considerations 13.1 Waste treatment methods No data available		
SECTION 14: Transport information		
14.1 UN number	IMDG: -	IATA: -
ADR/RID: -	IMDG	IATA
14.2 UN proper shipping name ADR/RID : Not dangerous goods		
IMDG : Not dangerous goods		
IATA Not dangerous goods		
14.3 Transport hazard class(es)		
ADR/RID: -	IMDG: -	IATA: -
14.4 Packaging group		
ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazards		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special precautions for user		
No data available		
Further information		
Not classified as dangerous in the meaning of trai	nsport regulations.	
SECTION 15: Regulatory information		
15.1 Safety, health and environmental regulations	/legislation specific for the	
substance or mixture		1.1
This material safety data sheet complies with the 1907/2006.	requirements of Regulation (EC) No.	
15.2 Chemical Safety Assessment		
For this product a chemical safety assessment wa	as 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 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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