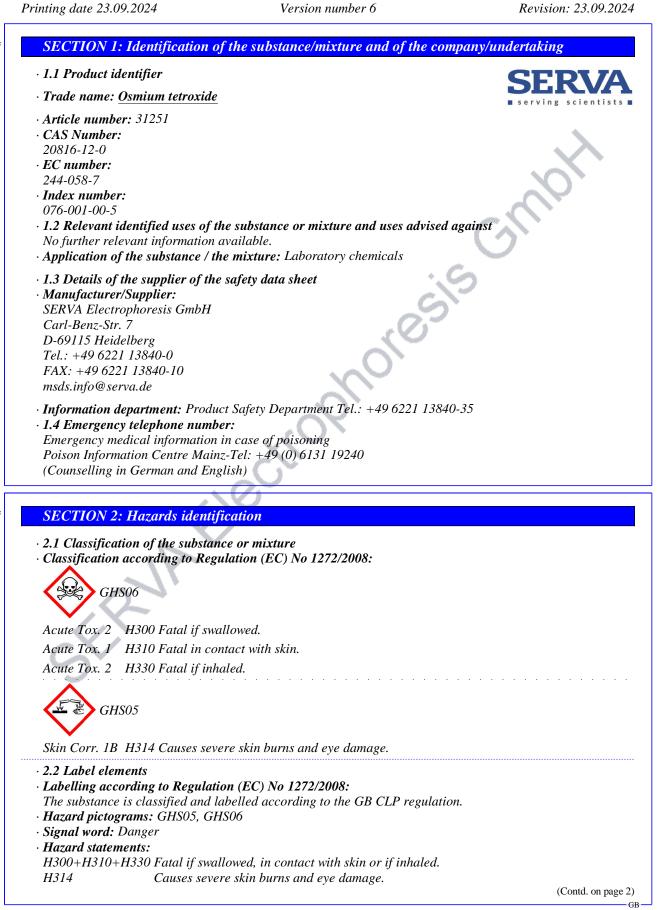
D :: 02



Printing date 23.09.2024		Version number 6	Revision: 23.09.2024
Trade name: Osmium tetroxide			
Duccastics and	tatom onto		(Contd. of page 1)
• Precautionary s P264		y after handling.	
P280	0	ve gloves/protective clothing/eye pro	otection/face protection/hearing
P301+P310	1	D: Immediately call a POISON CENTE	ER/ doctor.
P303+P361+P3	53 IF ON SKIN (o water [or show	r hair): Take off immediately all conta er].	aminated clothing. Rinse skin with
P305+P351+P3		nse cautiously with water for several r y to do. Continue rinsing.	ninutes. Remove contact lenses, ij
P320	Specific treatm	ent is urgent (see on this label).	
P361+P364 • 2.3 Other hazar	00	iately all contaminated clothing and wa	nsh it before reuse.

• Results of PBT and vPvB assessment:

• **PBT:** PBT - Assessment not available.

· **vPvB**: vPvB - Assessment not available.

· Determination of endocrine-disrupting properties No further relevant information available.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

- · CAS No. Description:
- 20816-12-0 osmium tetraoxide
- · Identification number(s):
- EC number: 244-058-7
- · Index number: 076-001-00-5
- · Description:
- · Empirical formula: Os O₄
- **MW:** 254.2

×

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information:
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- After inhalation: Supply fresh air and to be sure call for a doctor.
- · After skin contact:
- Wash off immediately with plenty of soap and water; rinse thoroughly; seek medical attention.
- After eye contact:

Rinse opened eye for several minutes with running water. Remove contact lenses if possible and continue rinsing. Consult an ophthalmologist immediately.

- After swallowing:
- Do not induce vomiting!

Drink copious amounts of water and provide fresh air. Call for doctor immediately.

- · 4.2 Most important symptoms and effects, both acute and delayed
- Gastric or intestinal disorders.

Coughing

Breathing difficulty

• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

Safety data sheet

Safety data sneet according to Regulation (EC) No 1907/2006, Article 31		
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Trade name: Osmium tetroxide		
· 5.2 Special hazards arising from	a the substance or mixture:	(Contd. of page 2
During heating or in case of fire • 5.3 Advice for firefighters		
• Protective equipment: Wear self-contained breathing a Wear fully protective suit.	pparatus.	
• Additional information Dispose of fire debris and contai	minated fire fighting water in accordance w	
Collect contaminated fire fightin	ng water separately. It must not enter the se	ewage system.
SECTION 6: Accidental relea	ase measures	
	ctive equipment and emergency procedure	es
Wear protective clothing. Ensure adequate ventilation		
Avoid formation of dust.		
Do not inhale dusts. Avoid contact with eyes and skin		
	Do not allow to enter sewers/ surface or g	pround water.
\cdot 6.3 Methods and material for co		
Dispose contaminated material a	is waste according to section 13.	
Pick up mechanically.		
• 6.4 Reference to other sections		
See Section 7 for information on See Section 8 for information on		
See Section 13 for disposal infor		
SECTION 7: Handling and s	torage	
· 7.1 Precautions for safe handlin		
Ensure good ventilation/exhaust		
Open and handle receptacle with Prevent formation of dust.	i care.	
	gainst explosions and fires: No special me	asures required.
• 7.2 Conditions for safe storage,		
· Storage	including any incompationales	
0	rooms and receptacles: No special require	ements.
· Information about storage in on		
Store away from flammable subs		
Store away from oxidising agent. • Further information about stord		
•	th access restricted to technical experts or	their assistants only
Store containers tightly closed a		men assistants only.
	er relevant information available.	
SECTION 8: Exposure contr	ols/personal protection	
· 8.1 Control parameters		
	nat require monitoring at the workplace:	
20816-12-0 osmium tetraoxide (
	,	

WEL Short-term value: 0.006 mg/m³, 0.0006 ppm Long-term value: 0.002 mg/m³, 0.0002 ppm (as Os)

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Safety data sheet The Page State (FC) No 1907/2006, Article 31

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rade name: Osmium tetroxide		
		(Contd. of page 3
• Additional information: The lists that	were valid during the creation were	used as basis.
· 8.2 Exposure controls		
• Appropriate engineering controls: No		
• Individual protection measures, such		
General protective and hygienic meas Keep away from foodstuffs, beverages		
Immediately remove all soiled and cor		
Wash hands before breaks and at the e		
Store protective clothing separately.		
Avoid contact with the eyes and skin.		
· Breathing equipment:		
Short term filter device:		
Filter P3.		
· Hand protection:		
Neoprene gloves The glove material has to be impermed	able and resistant to the product/ the	e substance/ the preparation
Due to missing tests no recommendati		
the chemical mixture.		n joi me producer me preparamon
Selection of the glove material on	consideration of the penetration	times, rates of diffusion and the
degradation		
• Material of gloves:		
The selection of the suitable gloves		rial, but also on further marks o
quality and varies from manufacturer	to manufacturer.	
• Penetration time of glove material:		
		h
The exact break trough time has to be	e found out by the manufacturer of t	he protective gloves and has to be
The exact break trough time has to be observed.		
The exact break trough time has to be observed. • For the permanent contact of a ma		
The exact break trough time has to be observed. • For the permanent contact of a ma suitable:		
The exact break trough time has to be observed. • For the permanent contact of a ma		
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The exact break trough time has to be observed. • For the permanent contact of a ma suitable: Chloroprene rubber, CR Nitrile rubber, NBR • Eye/face protection: Safety glasses • Body protection: Protective work cloth SECTION 9: Physical and chemic • 9.1 Information on basic physical and • General Information:	eximum of 15 minutes gloves mad hing. Tal properties d chemical properties	
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The exact break trough time has to be observed. • For the permanent contact of a ma suitable: Chloroprene rubber, CR Nitrile rubber, NBR • Eye/face protection: Safety glasses • Body protection: Protective work cloth SECTION 9: Physical and chemic • 9.1 Information on basic physical and • General Information: • Physical state: • Colour:	aximum of 15 minutes gloves mad hing. A properties d chemical properties Solid. yellow to greenish	
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The exact break trough time has to be observed. • For the permanent contact of a ma suitable: Chloroprene rubber, CR Nitrile rubber, NBR • Eye/face protection: Safety glasses • Body protection: Protective work cloth • SECTION 9: Physical and chemic • 9.1 Information on basic physical and • General Information: • Physical state: • Colour: • Odour: • Odour: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point of range: • Flammability: • Lower and upper explosion limit: • Lower: • Upper: • Flash point: • Decomposition temperature: • Viscosity: • Kinematic viscosity:	al properties d chemical properties d chemical properties Solid. yellow to greenish Pungent Not determined. 40 °C and boiling 130 °C Product is not flamma not applicable not applicable Not applicable No information availa Not applicable.	le of the following materials are
The exact break trough time has to be observed. • For the permanent contact of a ma suitable: Chloroprene rubber, CR Nitrile rubber, NBR • Eye/face protection: Safety glasses • Body protection: Protective work cloth • SECTION 9: Physical and chemic • 9.1 Information on basic physical and • General Information: • Physical state: • Colour: • Odour: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point of range: • Flammability: • Lower and upper explosion limit: • Lower: • Upper: • Flash point: • Decomposition temperature: • Viscosity: • Kinematic viscosity: • Dynamic viscosity:	al properties d chemical properties d chemical properties Solid. yellow to greenish Pungent Not determined. 40 °C and boiling 130 °C Product is not flamma not applicable not applicable Not applicable Not applicable No information availa	le of the following materials are
The exact break trough time has to be observed. • For the permanent contact of a ma suitable: Chloroprene rubber, CR Nitrile rubber, NBR • Eye/face protection: Safety glasses • Body protection: Protective work cloth SECTION 9: Physical and chemic • 9.1 Information on basic physical and • General Information: • Physical state: • Colour: • Odour: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point a range: • Flammability: • Lower and upper explosion limit: • Lower: • Upper: • Flash point: • Decomposition temperature: • Viscosity: • Kinematic viscosity: • Dynamic viscosity: • Solubility:	eximum of 15 minutes gloves mad hing. al properties d chemical properties Solid. yellow to greenish Pungent Not determined. 40 °C and boiling 130 °C Product is not flamma not applicable Not applicable Not applicable. Not applicable. Not applicable.	le of the following materials are
The exact break trough time has to be observed. • For the permanent contact of a ma suitable: Chloroprene rubber, CR Nitrile rubber, NBR • Eye/face protection: Safety glasses • Body protection: Protective work cloth • SECTION 9: Physical and chemic • 9.1 Information on basic physical and • General Information: • Physical state: • Colour: • Odour: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point of range: • Flammability: • Lower and upper explosion limit: • Lower: • Upper: • Flash point: • Decomposition temperature: • Viscosity: • Kinematic viscosity: • Dynamic viscosity:	al properties d chemical properties d chemical properties Solid. yellow to greenish Pungent Not determined. 40 °C and boiling 130 °C Product is not flamma not applicable not applicable Not applicable No information availa Not applicable.	le of the following materials are

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· Partition coefficient n-octanol/water (log value):	No information available
· Vapour pressure at 20 °C:	10 hPa
· Density and/or relative density:	
· Density at 20 °C:	4.91 g/cm ³
· Relative density:	No information available
· Particle characteristics	No information available
• 9.2 Other information	
· Appearance:	
· Form:	Crystalline
· Important information on protection of health and	d
environment, and on safety:	
· Explosive properties:	Product does not present an explosion hazard.
· Molecular weight	254.2 g/mol

SECTION 10: Stability and reactivity

- · 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions: Reacts with flammable substances
- · 10.4 Conditions to avoid: High temperatures
- · 10.5 Incompatible materials: Avoid contact with: Metals
- · 10.6 Hazardous decomposition products: In case of fire: see section 5
- · Additional information:
- photosensitive sublimable

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

- Acute toxicity: Fatal if swallowed, in contact with skin or if inhaled.
- · LD/LC50 values that are relevant for classification:
- Oral LD50 15 mg/kg (rat)
- · Skin corrosion/irritation: Causes severe skin burns and eye damage.
- · Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- *Reproductive toxicity:* Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards:
- · Endocrine disrupting properties: No relevant information available

SECTION 12: Ecological information

- · 12.1 Toxicity:
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.

(Contd. on page 6)

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Version number 6 Revision: 23.09.2024 Printing date 23.09.2024 Trade name: Osmium tetroxide (Contd. of page 5) · 12.5 Results of PBT and vPvB assessment: · PBT: PBT - assessment not available. · **vPvB**: vPvB - assessment not available. • 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11. · 12.7 Other adverse effects: · Additional ecological information: · General notes: Do not allow product to reach ground water, water course or sewage system. Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water. **SECTION 13: Disposal considerations** · 13.1 Waste treatment methods · Recommendation Dispose of in accordance with official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. · Uncleaned packagings: · Recommendation: Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations. · Recommended cleansing agent: Water, if necessary with cleansing agents. **SECTION 14: Transport information** • 14.1 UN number or ID number · ADR, IMDG, IATA UN2471 · 14.2 UN proper shipping name · ADR 2471 OSMIUM TETROXIDE · IMDG OSMIUM TETROXIDE, MARINE POLLUTANT $\cdot IATA$ **OSMIUM TETROXIDE** · 14.3 Transport hazard class(es) · ADR, IATA · Class: 6.1 Toxic substances. · Label: 6.1 ·IMDG · Class 6.1 Toxic substances. · Label 6.1 · 14.4 Packing group · ADR, IMDG, IATA Ι · 14.5 Environmental hazards Yes (PP) · Marine pollutant: Symbol (fish and tree) (Contd. on page 7)

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	(Contd. of	
14.6 Special precautions for user	Warning: Toxic substances.	
Hazard identification number (Kemler code):	66	
EMS Number:	F-A,S-A	
Stowage Category	В	
Stowage Code	SW2 Clear of living quarters.	
14.7 Maritime transport in bulk according to IM	10	
instruments	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	0	
Excepted quantities (EQ)	Code: E5	
	Maximum net quantity per inner packaging: 1 g	
	Maximum net quantity per outer packaging: 300 g	
Transport category	1	
Tunnel restriction code	C/E	
IMDG		
Limited quantities (LQ)	0	
Excepted quantities (EQ)	Code: E5	
	Maximum net quantity per inner packaging: 1 g	
	Maximum net quantity per outer packaging: 300 g	
UN "Model Regulation":	UN 2471 OSMIUM TETROXIDE, 6.1, I	

SECTION 15: Regulatory information

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

· Poisons Act

· Regulated explosives precursors Substance is not listed.

· Regulated poisons Substance is not listed.

· Reportable explosives precursors Substance is not listed.

• **Reportable poisons** Substance is not listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· Seveso category H1 ACUTE TOXIC

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 75

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

• Regulation (EC) No 273/2004 on drug precursors Substance is not listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.

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		(Contd. of page
· National regulations:		
• Technical instructions (air):		
Class Share in %		
I 80-100		
	er class 3 (Self-assessment): extremely ha t: A Chemical Safety Assessment has not	
SECTION 16: Other informa	ıtion	
· · · · · · · · · · · · · · · · · · ·	r present knowledge. However, this shall	not constitute a guarantee for ar
	all not establish a legally valid contractua	
· Department issuing SDS: Produ	ict Safety Department	
• Contact: +49 6221 13840-35	ici Sujery Deparimeni	
• Date of previous version: 24.03.	2020	
• Abbreviations and acronyms:	2020	
RID: Règlement international concerna International Transport of Dangerous G		chemin de fer (Regulations Concerning to
ICAO: International Civil Aviation Orga. PBT: persistent, bioaccumulative, toxic s		
vPvB: very persistent, very bioaccumulat		
° °	Registration, Evaluation, Authorisation and Restricti	ion of Chemicals
	belling and packaging of substances and mixtures	
bw: body weight ADR: Accord relatif au transport inte	rnational des marchandises dangereuses par ro	ute (European Agreement Concerning th
International Carriage of Dangerous Go	° .	
IMDG: International Maritime Code for	•	
IATA: International Air Transport Associ	ation	
PP: Severe Marine Pollutant GHS: Globally Harmonised System of Cl	assification and Labelling of Chemicals	
EINECS: European Inventory of Existing		
	on of the American Chemical Society)	
CAS. Chemical Abstracts Service (alvisic		
LC50: Lethal concentration, 50 percent		
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	• •	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and To	xic	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and To vPvB: very Persistent and very Bioaccum	xic vulative	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and To	xic pulative	