# **OTTO CHEMIE PVT LTD**

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-----ISO 9001: 2015-----

# MATERIAL SAFETY DATA SHEET

<b>1.Identification</b> 1.1GHS Product identifier Zirconium dioxide, puriss, 9 Code: Z 1440	9.9%				
1.20ther means of identifica	ation				
Product number	-				
Other names	zirconium tetrabromide				
1.3Recommended use of th		is on use			
Identified uses	For industry use only.				
Uses advised against	no data available				C. N.
1.4Supplier's details			15		
Company	WWW.GuideChem.COM		NI 701 0		
Address	8F, Block C, No.3 Buildin		No.701, Gu	dun Road,	
Talaakaaa	Hangzhou, Zhejiang 310	1030, China			
Telephone Fax	+86-571-89739798				
1.5Emergency phone numb	86(21)54365166				
Emergency phone number	+86-571-89739798	-1			
Service hours	Monday to Friday, 9am-	5nm (Standard	l time zone. I	ITC/GMT +8	
	hours).	opin (otanuare	runic zone.		
2.Hazard identification	nouid).			_ / /	
2.1Classification of the subs	stance or mixture		1 1 1	10011	
Not classified.		\kra			
2.2GHS label elements, inc	luding precautionary state	ments			1
Pictogram(s)	No symbol.				
Signal word	No signal word.				
Hazard statement(s)	none	1 La			
Precautionary statement(s)					
Prevention	none		7		
Response	none				
Storage	none		/		
Disposal	none				
2.3Other hazards which do	not result in classification				
none	S G	S PAN			
3.Composition/informatio	n on ingradianta				
3.1Substances	in on ingredients				
	n names and synonyms	CAS number	EC number	Concentration	1
	m dioxide	1314-23-4	none	100%	
		1017 20 7	none	100/0	J
4.First-aid measures					
4.1Description of necessary	/ first-aid measures				
General advice					

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary no data available

#### 5.Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Specific hazards arising from the chemical no data available
5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

## 6.Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7.Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large quantities. Thermal hazards no data available

# 9.Physical and chemical properties

Physical state	White Bead
Colour	no data available
Odour	no data available
Melting point/ freezing point	
Boiling point or initial boiling	5000\u00b0C(lit.)
point and boiling range	
Flammability	no data available
Lower and upper explosion	no data available
limit / flammability limit	
Flash point	5000\u00baC
Auto-ignition temperature	no data available
Decomposition temperature	
рН	no data available
Kinematic viscosity	no data available
Solubility	In water:insoluble
Partition coefficient n-	no data available
octanol/water (log value)	
Vapour pressure	no data available
Density and/or relative	5.89g/mLat 25\u00b0C(lit.)
density	
Relative vapour density	no data available

Particle characteristics

no data available

#### 10.Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability Stable under recommended storage conditions. 10.3Possibility of hazardous reactions no data available 10.4Conditions to avoid no data available 10.5Incompatible materials no data available 10.6Hazardous decomposition products no data available

#### **11.Toxicological information**

Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

#### 12. Ecological information

12.1Toxicity Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available 12.2Persistence and degradability no data available 12.3Bioaccumulative potential no data available 12.4Mobility in soil no data available 12.5Other adverse effects no data available

#### **13.Disposal considerations**

13.1Disposal methods Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

#### 14.Transport information

14.1UN Number ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. 14.2UN Proper Shipping Name ADR/RID: unknown IMDG: unknown IATA: unknown 14.3Transport hazard class(es) ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. 14.4Packing group, if applicable ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. 14.5Environmental hazards ADR/RID: no IMDG: no IATA: no 14.6Special precautions for user no data available 14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## **15.Regulatory information**

15.1Safety, health and environmental regulations specific for the product in question

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Chemical name	Common names and synonyms	CAS number	EC number	
Zirconium dioxide	Zirconium dioxide	1314-23-4	none	
European Inventory of Existing Commercial Chemical Substances (EINECS)				
EC Inventory			Listed.	
United States Toxic Substances Control Act (TSCA) Inventory			Listed.	
China Catalog of Hazardous chemicals 2015			Not Listed.	
New Zealand Inventory of Chemicals (NZIoC)			Listed.	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.	
Vietnam National Chemical Inventory			Listed.	
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.	

#### 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.