## **NIOBIUM PENTOXIDE AR MSDS**

# CAS No: 1313-96-8 MSDS



## **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of th	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
CAS No	: : 1313-96-8
Product code	: 04914
Chemical structure	Nb <sub>2</sub> O <sub>5</sub>
Synonyms	: Niobium(V) oxide
1.2. Relevant identified use	es of the substance or mixture and uses advised against
<b>1.2.1. Relevant identified use</b> Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
<b>1.2.2.</b> Uses advised against No additional information availab	le
1.3. Details of the supplier	of the safety data sheet
Labogens Fine Chem Industries 1st Floor , Above Bank of India, C Ludhiana Pb. (141007) +91 9316777775, +91 77078557 sales@labogens.comwww.La	00
1.4. Emergency telephone	number
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards identification	tion
2.1. Classification of the su	ubstance or mixture
Classification according to Red	gulation (EC) No. 1272/2008 [CLP]
Serious eye damage/eye H319 irritation, Category 2	
Skin corrosion/irritation, H315	

Category 2 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of classification categories and H statements : see section 16

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### Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36/37/38 Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements	
Labelling according to Regulation (EC	C) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	: GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	<ul> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> </ul>

### 2.3. Other hazards

No additional information available

SECTIO	SECTION 3: Composition/information on ingredients	
3.1.	Substance	
Name		: NIOBIUM PENTOXIDE AR
CAS No	)	: 1313-96-8

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

### 3.2. Mixture

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on the label).	s
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First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate m	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from t	the substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protect	ive equipment and emergency procedures
6.1.1. For non-emergency personne	l de la construcción de la constru
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release.
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6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	tainment and cleaning up
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well- ventilated area.
Hygiene measures	: Wash thoroughly after handling.
7.2. Conditions for safe storage, ir	ncluding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in original container. Store in a dry place.
7.3. Specific end use(s)	
No additional information available	
	al protection
SECTION 8: Exposure controls/persor	nal protection
	nal protection

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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	: Wear respiratory protection
<b>SECTION 9: Physical and chemical prop</b>	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Colour	: White crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 1520 °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	: No data available
Relative density	: No data available
Density Solubility	: 4.47 g/cm³ : 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

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0.2 Other information	
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
40.2 Descibility of beyordous reacti	
<b>10.3. Possibility of hazardous reaction</b> No additional information available	JIIS
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition proc	lucte
No additional information available	1003
SECTION 11: Toxicological information	
11.1. Information on toxicological ef	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Germ cell mutagenicity Carcinogenicity	
	: Not classified
	: Not classified
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single	: Not classified : Not classified
Carcinogenicity Reproductive toxicity	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> <li>Not classified</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> </ul>

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

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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 asses	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
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)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
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ADN	
Transport hazard class(es) (ADN)	: Not applicable

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### RID

14.6. Spec	cial precautions	for user
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#### - 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 NIOBIUM PENTOXIDE AR is not on the REACH Candidate List NIOBIUM PENTOXIDE AR is not on the REACH Annex XIV List

### 15.1.2. National regulations

## Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) nwg, non-hazardous to water (Classification according to VwVwS, Annex 3; WGK No 7101)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

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#### 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-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R36/37/38	Irritating to eyes, respiratory system and skin
Xi	Irritant

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