



## ADVANCED MATERIALS

# Safety Data Sheet

**Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2020/878

Issue Date 17/Feb/2023  
Print Date 17/Feb/2023

Revision Number 1.3.1  
Page 1 of 13

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

#### 1.1. Product identifier

**Product Name:** Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

**Pure substance/mixture** Substance

**Formula** Al<sub>2</sub>O<sub>3</sub>

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminum oxide	1344-28-1	215-691-6	01-2119529248-35-xxxx 01-2119529248-35-0017	Not classified	>99

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

**Recommended Use** Abrasive Adsorbent(s) Catalyst Filler Chemical industry (raw material for the production of other aluminium compounds), etc.

**Industrial use**  
Production substance  
Activated alumina used as adsorption component (chromatography for pharmaceutical and chemical industries, cleaning agent, drying solvents)  
Calcinated alumina used as filler for production of glass  
Production of activated Alumina  
Production of calcinated Alumina  
Production of ceramics and refractories products  
Abrasive for glass industry, ceramics and stones  
Use in water treatment chemicals  
Production of plastics  
Use in catalyst manufacture

**Professional use**  
Activated alumina used as adsorption component (chromatography for pharmaceutical and chemical industries, cleaning agent, drying solvents)  
Amendment for agricultural/horticultural use  
Surface treatment  
Use in catalyst manufacture  
Water treatment chemical

**Consumer use**  
Amendment for agricultural/horticultural use  
Surface treatment  
Water treatment chemical

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 2 of 13

Uses advised against None known.

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer** MARTINSWERK GmbH  
Kölner Strasse 110  
50127 Bergheim  
Germany  
Tel. : +49-2271-90.22.78  
Fax. : +49-2271-90.27.17

**Internet** www.hubermaterials.com

**E-mail** hubermaterials@huber.com

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

**Poison control center phone number** National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008) Not classified

#### Hazards identification

**Physical Hazard** Not classified

**Health Hazards** Not classified

**Environmental Hazard** Not classified

### 2.2. Label elements

**Symbols/Pictograms** None

**Signal Word** None

**Hazard Statements** This product is not classified as hazardous according to the UN GHS guideline and labeling is not required  
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Precautionary Statements

**Prevention** Employ good industrial hygiene practice  
Wash hands thoroughly after handling

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023  
Print Date 17/Feb/2023

Revision Number 1.3.1  
Page 3 of 13

IF ON SKIN: Wash with plenty of soap and water  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
If swallowed, rinse mouth with water (only if the person is conscious)  
Drink plenty of water

### Storage

Keep in a dry place  
Store away from incompatible materials

### Disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Additional Information:

None.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Aluminum oxide	1344-28-1	215-691-6	01-2119529248-35-xxxx 01-2119529248-35-0017	Not classified	-	>99

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General Advice

When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### Eye Contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

#### Skin Contact

Wash with plenty of soap and water.

#### Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Ingestion

Rinse mouth thoroughly with water.

#### Aspiration hazard

Not an expected route of exposure.

#### Notes to Physician

Treat symptomatically.

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 4 of 13

**4.2. Most important symptoms and effects, both acute and delayed** Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

**4.3. Indication of any immediate medical attention and special treatment needed** Treatment should be symptomatic and supportive.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media**

None known.

### 5.2. Special hazards arising from the substance or mixture

None known.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Fire-fighting measures**

In case of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. Keep unauthorized personnel away.

**For non-emergency personnel**

Keep unauthorized personnel away.

**For emergency responders**

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Avoid runoff to waterways and sewers.

### 6.3. Methods and material for containment and cleaning up

Methods for Containment : Prevent further leakage or spillage if safe to do so  
Methods for Clean-up : Sweep up and shovel into suitable containers for disposal

**6.4. Reference to other sections** Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Minimize dust generation and accumulation  
Provide local exhaust ventilation  
Handle in accordance with good industrial hygiene and safety practice
- 7.2. Conditions for safe storage, including any incompatibilities** Store away from incompatible materials  
Keep container tightly closed and dry
- 7.3. Specific end use(s)** No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Aluminum oxide

<b>ACGIH</b>	TWA: 10 mg/m <sup>3</sup>
<b>OSHA</b>	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction
<b>NIOSH</b>	Not established
<b>Austria</b>	TWA: 5 mg/m <sup>3</sup> respirable fraction, smoke
<b>Austria</b>	STEL: 10 mg/m <sup>3</sup> respirable fraction, smoke
<b>Belgium</b>	TWA: 1 mg/m <sup>3</sup>
<b>Bulgaria</b>	TWA: 1.5MGM3;Respirable fraction. 10.0MGM3;Dust.
<b>Croatia</b>	TWA: 10 mg/m <sup>3</sup> total dust 4 mg/m <sup>3</sup> respirable dust
<b>Czech Republic</b>	TWA: 10.0 mg/m <sup>3</sup> dust
<b>Denmark</b>	TWA: 5 mg/m <sup>3</sup> total 2 mg/m <sup>3</sup> respirable
<b>Estonia</b>	TWA: 10 mg/m <sup>3</sup> total dust 4 mg/m <sup>3</sup> respirable dust
<b>Finland</b>	TWA: 2 mg/m <sup>3</sup> Al
<b>France</b>	VME/VLE: 10MGM3
<b>Germany</b>	DFG MAK: 8-hr TWA: 4 mg/m <sup>3</sup> : haltige Stäube (alveolengängige Fraktion)[4 mg/m <sup>3</sup> : inhalable dust fraction ] 1.5 mg/m <sup>3</sup> haltige Stäube (einatembare Fraktion)[1.5MGM3 : respirable dust fraction] TRGS 900 limit : 3 mg/m <sup>3</sup> : respirable; 10MG/M3 inhalable
<b>Greece</b>	TWA: 10 mg/m <sup>3</sup> inhalable fraction 5 mg/m <sup>3</sup> respirable fraction
<b>Hungary</b>	TWA: 6 mg/m <sup>3</sup> respirable dust
<b>Ireland</b>	TWA: 10 mg/m <sup>3</sup> total inhalable dust 4 mg/m <sup>3</sup> respirable dust
<b>Ireland</b>	30 mg/m <sup>3</sup> total inhalable dust 12 mg/m <sup>3</sup> respirable dust

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 6 of 13

Italy	TWA: 1MGM3;Respirable.
Latvia	TWA: 6 mg/m <sup>3</sup> disintegration aerosol
Lithuania	TWA: 5 mg/m <sup>3</sup> AI inhalable fraction 2 mg/m <sup>3</sup> AI respirable fraction
Netherlands	MAC TWA: 10 mg/m <sup>3</sup>
Norway	TWA: 10 mg/m <sup>3</sup>
Norway	STEL: 10 mg/m <sup>3</sup>
Poland	TWA: 2.5 mg/m <sup>3</sup> inhalable fraction 1.2 mg/m <sup>3</sup> respirable fraction
Portugal	TWA: 10 mg/m <sup>3</sup> particulate matter containing no Asbestos and <1% Crystalline silica
Romania	TWA: 2 mg/m <sup>3</sup> aerosol 3 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>
Romania	STEL: 5 mg/m <sup>3</sup> aerosol 10 mg/m <sup>3</sup> dust 3 mg/m <sup>3</sup> fume
Slovakia	TWA: 1.5 mg/m <sup>3</sup> fume 1.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> respirable fraction 6 mg/m <sup>3</sup> total aerosol
Spain	TWA: 10 mg/m <sup>3</sup>
Sweden	TWA: 5 mg/m <sup>3</sup> total dust 2 mg/m <sup>3</sup> respirable dust
Switzerland	TWA: 3 mg/m <sup>3</sup> respirable dust, smoke
Switzerland	STEL: 24 mg/m <sup>3</sup> respirable dust, smoke
United Kingdom	TWA: 10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable dust

**Recommended monitoring procedures** Refer also to national guidance documents for information on currently recommended monitoring procedures

**Biological Limit Values** None

**DNEL (Derived No Effect Level)**

### Aluminum oxide

Worker - inhalative, long-term - systemic	3 mg/m <sup>3</sup>
Consumer - oral, long-term - systemic	6.22 mg/kg bw/d

**PNEC (Predicted No Effect Concentration)**

### Aluminum oxide

Sewage treatment plant	20 mg/l
------------------------	---------

## 8.2. Exposure controls

### Engineering Measures

Do not handle until all safety precautions have been read and understood  
Ensure adequate ventilation, especially in confined areas  
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)  
Use exhaust ventilation to keep airborne concentrations below exposure limits  
In case of insufficient ventilation, wear suitable respiratory equipment

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023  
Print Date 17/Feb/2023

Revision Number 1.3.1  
Page 7 of 13

### Personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear suitable protective clothing.
Hand protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Wear suitable gloves tested to EN 374.
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Recommended filter type: (FFP2) (FFP3)
Thermal hazards	None known.
Hygiene Measures	Follow general hygiene considerations recognized as common good workplace practices The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc
Environmental Exposure Controls	Dispose of in accordance with local regulations

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

Physical State	Powder Solid
Color	White
Color	White
Odor	Odorless
Odor Threshold	None
pH:	Not available
pH	No data available
Melting point / Freezing point	2000 °C (3632 °F) (1013 hPa)
Initial boiling point and boiling range	2980 °C (5396 °F) (1013 hPa)
Freezing Point	Not applicable
Flash Point	Not applicable Product/Substance is inorganic Solid
Evaporation Rate	Not applicable. Melting point
Flammability (solid, gas)	No information available
Upper flammability limit:	--
Lower flammability limit:	--
Vapor Pressure	1 hPa (2158 °C)
Vapor Density	Not applicable Melting Point : > 300°C
Density	No data available
Relative Density	4 g/cm3 (20°C)

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 8 of 13

Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient	No information available Not applicable Product/Substance is inorganic
Autoignition Temperature	Aluminum oxide has no potential to explode.
Decomposition Temperature	~2000 °C (> 2050 °C)
Viscosity	No information available.
Kinematic viscosity	Not applicable Solid
Dynamic viscosity	Not applicable Solid
Explosive Properties	None
Oxidizing Properties	None
Particle Size	No information available
VOC Content (%)	Not applicable

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

Not applicable

### 9.2.2. Other safety characteristics

Not applicable

## SECTION 10: Stability and reactivity

10.1. Reactivity	No data available
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None under normal processing
10.4. Conditions to avoid	Incompatible materials Decomposition Temperature ~ 2000 °C (> 2050°C) < / =0.3% : Al <sub>2</sub> O <sub>3</sub> , Water
10.5. Incompatible materials	Strong acids
10.6. Hazardous decomposition products	None known

## SECTION 11: Toxicological information

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

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

Aluminum oxide



HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 9 of 13

<b>Serious eye damage/eye irritation</b>	Non-irritant : Rabbit
<b>Skin Corrosion/Irritation</b>	Non-irritant : Rabbit
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive Effects</b>	No indication of effects on fertility. No indication of effects on developmental toxicity.
<b>Target Organ Effects</b>	Lungs
<b>Specific target organ toxicity - Single exposure</b>	May cause respiratory irritation
<b>Specific target organ toxicity - Repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure if inhaled Lungs

<b>Acute Toxicity</b>	Not expected to be acutely toxic
<b>Chronic Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Chronic Effects</b>	Based on available data, the classification criteria are not met.
<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met
<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive Effects</b>	No indication of effects on developmental toxicity. Information given is based on data obtained from similar substances. No indication of effects on fertility.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Specific target organ toxicity - Single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Repeated exposure</b>	Based on available data, the classification criteria are not met.

### Information on Likely Routes of Exposure

<b>Inhalation</b>	Do not breathe dust
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	Avoid prolonged or repeated contact with skin Contact with dust can cause mechanical irritation or drying of the skin
<b>Eyes</b>	Avoid contact with eyes

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 10 of 13

Dust contact with the eyes can lead to mechanical irritation

**Aspiration hazard**

Not an expected route of exposure.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

**11.2.2. Other information** Not applicable

## SECTION 12: Ecological information

**12.1. Toxicity**

Not considered to be harmful to aquatic life

**Aluminum oxide**

**WGK Classification (AwSV)** 1346 WGK: nwg

**12.2. Persistence and degradability**

The methods for determining biodegradability are not applicable to inorganic substances.

**12.3. Bioaccumulative potential** Not likely to bioaccumulate.

**Bioconcentration factor (BCF)**

No data available.

**12.4. Mobility in soil**

None.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal Methods**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse container.

**Waste codes**

Waste codes should be assigned by the user based on the application for which

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 11 of 13

the product was used

### Aluminum oxide

WGK Classification (AwSV) 1346 WGK: nwg

## SECTION 14: Transport information

### Mode of Transportation (Road, Water, Air, Rail)

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number or ID number None

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for user Not applicable

14.7. Maritime transport in bulk according to IMO instruments  
Not applicable

## SECTION 15: Regulatory information

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

### Global Inventories

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum oxide	1344-28-1	215-691-6	Y	Y	Y	(1)-23	KE-01012	Y	55-1-0151	Y	Y	Y	A

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 12 of 13

						(ENCS)(IS HL)			7				
--	--	--	--	--	--	------------------	--	--	---	--	--	--	--

Legend X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

### REACH No.

#### Aluminum oxide

EU REACH registration number 01-2119529248-35-xxxx

01-2119529248-35-0017

Turkish KKDIK pre-registration 05-0000192736-20-0000

### Germany

Very low solubility Not considered to be harmful to aquatic life

#### Aluminum oxide

WGK Classification (AwSV) 1346 WGK: nwg

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

#### Reason for Revision

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

Issue Date

17/Feb/2023

Print Date

17/Feb/2023

Revision Number

1.3.1

#### Prepared by

Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.

(CLP) Regulation (EC 1272/2008) Not classified

#### Labeling

Symbols/Pictograms

None

Signal Word

None

Hazard Statements

This product is not classified as hazardous according to the UN GHS guideline and labeling is not required. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Training Advice

Do not handle until all safety precautions have been read and understood.

#### Abbreviations and acronyms

IARC (International Agency for Research on Cancer)  
IUCLID (International Uniform Chemical Information Database)  
WHMIS (Workplace Hazardous Materials Information System)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

HUBER

## Safety Data Sheet

Martoxid® PK-6; Martoxid® PN-201; Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PN-6GM; Martoxid® PS-6(12); Martoxid® PS-6

Issue Date 17/Feb/2023

Print Date 17/Feb/2023

Revision Number 1.3.1

Page 13 of 13

TWA (Time-Weighted Average)  
CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))  
PPE (Personal Protection Equipment)  
NIOSH (National Institute for Occupational Safety and Health)  
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)  
RQ (Reportable Quantity) (RQ/% in mixture)  
STEL (Short Term Exposure Limit)  
TLV® (Threshold Limit Value)  
DNEL (Derived No Effect Level)  
SVHC (Substances of Very High Concern)  
BOD (Biochemical oxygen demand)  
COD (Chemical oxygen demand)  
ICAO (International Civil Aviation Organization)  
IMDG (International Maritime Dangerous Goods)  
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
DOT (Department of Transportation)  
TDG (Transport of Dangerous Goods) Canada  
PNEC (Predicted No Effect Concentration)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure  
GHS (Globally Harmonized System)  
TSCA (Toxic Substances Control Act)

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**