# ADVANCED MATERIALS

## **Safety Data Sheet**

Martoxid® MR-23; Martoxid® MR-32; Martoxid® MR-41; Martoxid® MR-42; Martoxid® MR-52; Martoxid® MR-63; Martoxid® MR-70; Martoxid® MR-70 FF; Martoxid® MRS; Martoxid® MRS-1

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

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

1.1. Product identifier

Product Name: Martoxid® MR-23; Martoxid® MR-32; Martoxid® MR-41; Martoxid® MR-42; Martoxid®

MR-52; Martoxid® MR-63; Martoxid® MR-70; Martoxid® MR-70 FF; Martoxid® MRS;

Martoxid® MRS-1

Pure substance/mixture Substance

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-		>99	
			0017			

#### 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

Polymer processing

Production of plastics and rubber compounds Formulation flame retardant preparation Compounds used in transport industry Compounds used in electrical application Compounds used in electronic application

Compounds used in Wire & Cable

Abrasive for glass industry, ceramics and stones

Textile coating

Production of corrosion inhibitors

**Fuels** 

Deacidification agent for paper

pH Regulating agent

Use in coatings, inks, paints and roofing

Use as corrosion inhibitor of gas turbines and boilers

Use in cleaning agents
Use in oil field operations

Use in lubricants

Use in metal working fluids Use in blowing agents

Use in binders and release agents

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Use in textile

Use in functional fluids Use in agrochemicals

Use in water treatment chemicals

Use in mining chemicals

Recycling plastics

White pigment for paper and board, filler, etc.

Professional use Polymer processing

Use in Adhesives and/or sealants

Use in coatings, inks, paints and roofing

Use in agrochemicals Use in cleaning agents Use in oil field operations Use in lubricants

Use in metal working fluids

Use in binders and release agents

Use in propellants Use in textile Use in explosives

Use in water treatment chemicals

Use in functional fluids

For use by laboratories for research

**Fuels** 

De-icing & anti-icing applications Road and construction applications

Consumer use Use in coatings, inks, paints and roofing

Use in cleaning agents
Use in lubricants
Use in propellants

**Fuels** 

Use in functional fluids

De-icing & anti-icing applications

Cosmetic additive

Use in water treatment chemicals

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 CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

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number

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 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.

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## **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	Not classified	<u>=</u>	>99
			-xxxx			
			01-2119529248-35			
			-0017			

## **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.

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** Treatment should be symptomatic and supportive.

medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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#### 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** 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,** Store away from incompatible materials **including any incompatibilities** Keep container tightly closed and dry

**7.3. Specific end use(s)**No information available.

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## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

Aluminum oxide

Ireland

TWA: 10 mg/m<sup>3</sup> **ACGIH** 

**OSHA** TWA: 15 mg/m<sup>3</sup> total dust

> TWA: 5 mg/m<sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m3 total dust

(vacated) TWA: 5 mg/m3 respirable fraction

**NIOSH** Not established

TWA: 5 mg/m3 respirable fraction, smoke Austria STEL: 10 mg/m3 respirable fraction, smoke Austria

TWA: 1 mg/m<sup>3</sup> Belgium

Bulgaria TWA: 1.5MGM3;Respirable fraction.

10.0MGM3;Dust.

Croatia TWA: 10 mg/m<sup>3</sup> total dust

> 4 mg/m<sup>3</sup> respirable dust TWA: 10.0 mg/m<sup>3</sup> dust

Czech Republic **Denmark** TWA: 5 mg/m3 total

2 mg/m<sup>3</sup> respirable

**Estonia** TWA: 10 mg/m<sup>3</sup> total dust

4 mg/m³ respirable dust

TWA: 2 mg/m3 Al **Finland** VME/VLE: 10MGM3 **France** 

DFG MAK: 8-hr TWA: 4 mg/m<sup>3</sup>: haltige Stäube (alveolengängige Fraktion)[4 mg/m<sup>3</sup>: Germany

inhalable dust fraction 1

1.5 mg/m³ haltige Stäube (einatembare Fraktion)[1.5MGM3 : respirable dust fraction]

TRGS 900 limit: 3 mg/m3: respirable; 10MG/M3 inhalable

TWA: 10 mg/m<sup>3</sup> inhalable fraction Greece

> 5 mg/m3 respirable fraction TWA: 6 mg/m<sup>3</sup> respirable dust

Hungary TWA: 10 mg/m3 total inhalable dust Ireland 4 mg/m3 respirable dust

30 mg/m3 total inhalable dust

12 mg/m³ respirable dust TWA: 1MGM3; Respirable. Italy

TWA: 6 mg/m3 disintegration aerosol Latvia Lithuania TWA: 5 mg/m<sup>3</sup> Al inhalable fraction

2 mg/m<sup>3</sup> Al respirable fraction

MAC TWA: 10 mg/m<sup>3</sup> **Netherlands** Norway TWA: 10 mg/m<sup>3</sup> STEL: 10 mg/m3 Norway

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/m3 aerosol

> $3 \text{ mg/m}^3$  $1 \text{ mg/m}^3$

STEL: 5 mg/m3 aerosol Romania

10 mg/m<sup>3</sup> dust

3 mg/m<sup>3</sup> fume

Slovakia TWA: 1.5 mg/m<sup>3</sup> fume

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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/m³ total dust

2 mg/m<sup>3</sup> respirable dust

**Switzerland** TWA: 3 mg/m³ respirable dust, smoke **Switzerland** STEL: 24 mg/m³ respirable dust, smoke

United Kingdom TWA: 10 mg/m³ inhalable dust

4 mg/m³ 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,	3 mg/m³
long-term - systemic	
Consumer - oral, long-term -	6.22 mg/kg bw/d
systemic	

#### 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

,

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)

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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 Solid Powder Color White Odor Odorless

Odor Threshold No information available

pH: Not available

Melting point / Freezing point 2000 °C (3632 °F) (1013 hPa) Initial boiling point and boiling 2980 °C (5396 °F) (1013 hPa)

range

Freezing Point Not applicable

Flash Point Not applicable Product/Substance is inorganic Solid

**Evaporation Rate** Not applicable. Melting Point : > 300°C

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 (20 °C) 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

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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 None known

products

## **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

Serious eye damage/eye Non-irritant : Rabbit

irritation

Skin Corrosion/Irritation Non-irritant : Rabbit

Mutagenicity Based on available data, the classification criteria are not met

**Reproductive Effects** No indication of effects on fertility.

No indication of effects on developmental toxicity.

Target Organ Effects Lungs

Specific target organ toxicity May cause respiratory irritation

- Single exposure

Specific target organ toxicity May cause damage to organs through prolonged or repeated exposure if inhaled

- Repeated exposure Lungs

Acute Toxicity Based on available data, the classification criteria are not met

**Chronic Toxicity** Based on available data, the classification criteria are not met.

**Chronic Effects** Based on available data, the classification criteria are not met.

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**Respiratory Sensitization**Based on available data, the classification criteria are not met

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met

Skin Corrosion/Irritation Based on available data, the classification criteria are not met

**Skin Sensitization** Based on available data, the classification criteria are not met

Mutagenicity Based on available data, the classification criteria are not met

**Reproductive Effects**This product does not contain any known or suspected reproductive hazards.

**Reproductive Toxicity** Based on available data, the classification criteria are not met.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed

by OSHA, IARC or NTP.

Specific target organ toxicity -

Single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

Repeated exposure

Based on available data, the classification criteria are not met.

#### Information on Likely Routes of Exposure

**Inhalation** Do not breathe dust

**Ingestion** Ingestion is not a likely route of exposure

**Skin** Avoid prolonged or repeated contact with skin

Contact with dust can cause mechanical irritation or drying of the skin

Eyes Avoid contact with eyes

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

This product does not contain any known or suspected endocrine disruptors

properties

**11.2.2. Other information** Not applicable

## **SECTION 12: Ecological information**

12.1. Toxicity

Not considered to be harmful to aquatic life

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**Aluminum oxide** 

WGK Classification (AwSV) 1346 WGK: nwg

12.2. Persistence and

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

degradability

**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

the product was used

<u>Aluminum oxide</u>

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

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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

None 14.4. Packing group

14.5. Environmental hazards No

14.6. Special precautions for 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)		Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum oxide	1344-28-1	215-691-6	Y	Υ	Y	(1)-23 (ENCS)(IS HL)	KE-01012	Y	55-1-0151 7	Y	Y	Y	Α

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

#### 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

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A Chemical Safety Assessment has been carried out for this substance

## **SECTION 16: Other information**

Reason for Revision This SDS has been revised in the following section(s) 15

This safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

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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)

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)

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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**