Safety Data Sheet



Martoxid® PC 12; Martoxid® PC 12/1; Martoxid® PC 12/2; Martoxid® PC 12/3

This material safety datasheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2014
Globally Harmonized System (GHS)

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

1.1. Product identifier

Product Name: Martoxid® PC 12; Martoxid® PC 12/1; Martoxid® PC 12/2; Martoxid® PC 12/3

Pure substance/mixture Substance

<u>Aluminium oxide</u>

CAS Number 1344-28-1 **Weight-%** >99

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

Recommended Use Industrial Abrasive Adsorbent(s) Catalyst Filler

1.3. Details of the supplier of the safety data sheet

Company: 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

SECTION 2: Hazards identification

Brazil Ministry of Transport This product is not part of the Hazardous Products Classification established by

the Brazilian Federal Department of Transportation's Administrative Ruling 204

from 5/20/1997.

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2.1. Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards Not classified

Not classified **Environmental Hazard**

2.2. Label elements

Symbols/Pictograms None.

Signal Word None.

Hazard Statements None

Precautionary Statements

Employ good industrial hygiene practice Prevention

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

Wash thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust

IF ON SKIN: Wash with plenty of soap and water Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

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 Store away from incompatible materials

Disposal Dispose of contents/containers in accordance with local regulations

Additional Information: None.

Hazards not otherwise classified Not classified.

(HNOC)

SECTION 3: Composition/information on ingredients

Pure substance/mixture Substance

Chemical Name	CAS Number	TSCA: United States	REACH registration	GHS Classification	Weight-%	
			number			
Aluminium oxide	1344-28-1	A	01-2119529248-35-xx	Not classified.	>99	
			XX			
			01-2119529248-35-00			
			17			

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Additional information TSCA A: Component is listed on Inventory as Active

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.

Ingestion Rinse mouth thoroughly with water.

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

comfortable for breathing.

Aspiration hazard Not an expected route of exposure.

4.2. Most important symptoms

and effects, both acute and

delayed

May cause skin, eye, and respiratory tract irritation.

4.3. Indication of any immediate Treatment should be symptomatic and supportive.

medical attention and special

treatment needed

SECTION 5: Firefighting measures

Flammable Properties None known

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 None known.

the substance or mixture

5.3. Advice for firefighters

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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, Ensure adequate ventilation

protective equipment and emergency procedures

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

Minimize dust generation and accumulation

handling

Provide local exhaust ventilation

Handle in accordance with good industrial hygiene and safety practice

including any incompatibilities

7.2. Conditions for safe storage, Store away from incompatible materials. Keep container tightly closed and dry.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Aluminium oxide - 1344-28-1

OSHA TWA: 15 mg/m³ total dust

> TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction

NIOSH Not established

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ACGIH TWA: 10 mg/m³ Mexico TWA 10 mg/m³

Predicted No Effect Concentration (PNEC)

Biological Limit Values: None

8.2. Exposure controls

Do not handle until all safety precautions have been read and understood **Engineering Measures**

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

Wear safety glasses with side shields (or goggles). **Eye/Face Protection**

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.

In case of inadequate ventilation wear respiratory protection. **Respiratory Protection**

None known. Thermal hazards

Follow general hygiene considerations recognized as common good workplace **Hygiene Measures**

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

Physical State Solid.

White Color

Odor Odorless

No information available **Odor Threshold**

pH: Not available

2000 °C (3632 °F) (1013 hPa) Melting point / Freezing point

Not available Initial boiling point

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Flash Point: Not applicable

Product/Substance is inorganic

Solid

Evaporation Rate Not applicable

Flammability (solid, gas) No information available

Vapor Pressure 1 hPa (2158 °C)

Relative Density 4 g/cm3 (20°C)

Water Solubility Insoluble

Partition coefficient Not available

Autoignition Temperature Aluminum oxide has no potential to explode.

Decomposition Temperature ~2000 °C (> 2050 °C)

Viscosity Not applicable

Explosive Properties None

Oxidizing Properties None

VOC Content (%) Not applicable

Solubility in other solvents No information available

9.2. Other information

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%. :. Al₂O₃. ,. Water.

10.5. Incompatible materials Strong acids

10.6. Hazardous decomposition None known.

products

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SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other

equivalent values.

Information on Likely Routes of Exposure

Inhalation Do not breathe dust.

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.

Ingestion Ingestion is not a likely route of exposure.

Aspiration hazard Not an expected route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Signs and symptoms may include coughing, gasping, choking and difficulty

breathing. Contact with eyes may cause irritation.

Symptoms Low hazard for usual industrial or commercial handling

11.1. Information on toxicological effects

Aluminium oxide - 1344-28-1

Mutagenicity in vitro

in vivo

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.

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.

Serious eye damage/eye

irritation

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

Respiratory Sensitization 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.

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

Reproductive EffectsThis product does not contain any known or suspected reproductive hazards.

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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.

Mixture versus substance

information

No information available.

SECTION 12: Ecological information

12.1. Ecotoxicity Very low solubility. Not considered to be harmful to aquatic life.

Aluminium oxide - 1344-28-1

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.

Partition coefficient Not available.

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. Other adverse effects None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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the product was used

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

and regulations

SECTION 14: Transport information

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

ADR Not regulated

RID Not regulated

ADN Not regulated

IATA Not regulated

IMDG/IMO Not regulated

ICAO Not regulated

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 Not applicable

user

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

Global Inventories

Chemical Name	CAS Number	EC No	REACH registrati	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)	Taiwan	TSCA: United
			on number										States
Aluminium oxide	1344-28-1		01-211952 9248-35-x		Ý	Ý	(1)-23 (ENCS)(ISH L)	KE-01012	Ý	Ý	Ý	Y	Á

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	XXX					
	01-211952 9248-35-0 017					

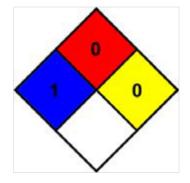
Legend

Special - White

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

Information on risks and safety as written on the label Health - Blue Flammability - Red Physical Hazard - Yellow

Diamante de Hommel



- 4- Extreme
- 3- High
- 2- Moderate
- 1- Low
- 0- Minimum

SECTION 16: Other information

Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

regulatory.affairs@huber.com

Reason for Version Brasil: ABNT NRB 14725-4: 2014.

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

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

International Uniform Chemical Information Database (IUCLID)

Workplace Hazardous Materials Information System (WHMIS) status and classification

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA - Time-Weighted Average

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC

1272/2008)

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PPE - Personal Protection Equipment

NIOSH - National Institute for Occupational Safety and Health

TDG (Transport of Dangerous Goods) Canada

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

Reportable Quantity (RQ) (RQ/% in mixture)

STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL)

SVHC: Substances of Very High Concern for Authorization:

Land transport (ADR/RID)

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)

ICAO (air)

(IMDG) International Maritime Dangerous Goods

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

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