

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

Japan-JIS Z 7253:2012 Occupational Safety and Health Act Globally Harmonized System (GHS)

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1. PRODUCT AND COMPANY IDENTIFICATION		
Product Name:	Martoxid® PC 12; Martoxid® PC 12/1; Martoxid® PC 12/2; Martoxid® PC 12/3	
Pure substance/mixture	Substance	
Aluminum oxide CAS Number Weight-%	1344-28-1 -	
Recommended Use	Industrial Abrasive Adsorbent(s) Catalyst Filler	
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	
Emergency Telephone Number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887 +81 03-3560-7316	

# 2. HAZARD IDENTIFICATION

Japan GHS Classification Physical Hazards	Not classified
Health Hazard	Specific target organ toxicity (STOT) - single exposure, category 3 respiratory tract irritation Specific target organ toxicity (STOT) - repeated exposure, category 1 Lungs
Environmental Hazards	Not classified
GHS label elements Symbols/Pictograms	

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Signal Word	Danger
Hazard statements	H372 - Causes damage to organs through prolonged or repeated exposure H335 - May cause respiratory irritation
Precautionary Statements Prevention	Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice Do not breathe dust Wash hands thoroughly after handling
Response	IF exposed or concerned: Get medical advice/attention Wash with plenty of soap and water
Storage	Store away from incompatible materials. Keep in a dry place
Disposal	Dispose of contents/container to an approved waste disposal plant
Additional Information:	None

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture

Substance

Chemical Name	CAS Number	Japan	Japan GHS Classification	TSCA: United States	REACH registration number	Weight-%
Aluminum oxide	1344-28-1	(1)-23 (ENCS)(ISHL)	STOT - single exposure Category 3 respiratory tract irritation STOT (Repeat Exposure):1. Target organ: lung		01-2119529248-35 -xxxx 01-2119529248-35 -0017	-

# 4. FIRST AID MEASURES

If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing If symptoms persist, call a physician

IF ON SKIN:

Wash off with soap and water. Get medical attention if irritation develops and persists.

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IF IN EYES:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Call a physician if irritation develops and persists	
If swallowed:	Rinse mouth thoroughly with water If swallowed, call a poison control center or physician immediately	
Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves		
Notes to Physician	Treat symptomatically.	
	5. FIRE-FIGHTING MEASURES	

Suitable Extinguishing	Water spray (fog)
Media	Foam
	Dry chemical
	Carbon dioxide (CO2)

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the Avoid dust formation substance or mixture

In case of fire and/or explosion do not breathe fumes
Water mist may be used to cool closed containers
Keep unauthorized personnel away

**Special Protective Equipment** Wear self-contained breathing apparatus and protective suit for Firefighters

# 6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters	Avoid dust formation Ensure adequate ventilation Use personal protection recommended in Section 8 Avoid contact with eyes and skin. Wear suitable personal protection equipment. Keep unauthorized personnel away
Environmental Precautions	Keep out of drains, sewers, ditches and waterways Disposal considerations See section 13 for more information
Methods and material for containment and cleaning up	Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container Minimize use of water during clean-up Recommended filter type: High efficiency particulate air filter (HEPA filter)
Other Information	Not applicable

# 7. HANDLING AND STORAGE

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#### Handling

 Technical measures	Provide adequate ventilation as well as local exhaustion at critical locations Ensure adequate ventilation Use personal protection equipment See section 8 for more information
Advice on safe handling	Minimize dust generation and accumulation
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a cool, well-ventilated place
Hygiene Measures	Wash hands thoroughly after handling

#### Storage

Packaging compatibilities

Keep/store only in original container

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Provide adequate ventilation as well as local exhaustion at critical locations	
Aluminum oxide Japan	TWA: 0.5 mg/m <sup>3</sup> (respirable dust) 2 mg/m <sup>3</sup> (total dust)	
Engineering Measures	Ensure adequate ventilation, especially in confined areas	
Personal Protective Equipment		
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection	
Hand protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn	
Eye Protection	Wear safety glasses with side shields (or goggles)	
Skin and Body Protection	Wear suitable protective clothing. Chemical resistant apron.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Wash thoroughly after handling Avoid contact with eyes and skin Do not breathe dust	

# 9. 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	
Flash Point:	Not applicable. Product/Substance is inorganic. Solid.

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Evaporation Rate Flammability (solid, gas) Upper flammability limit: Lower flammability limit:	Not applicable Melting Point : > 300°C No information available
Vapor Pressure	1 hPa (2158 °C)
Vapor Density	Not applicable Melting Point : > 300°C
Relative Density	4 g/cm3 (20°C)
Water Solubility	Insoluble
Solubility in other solvents	No information available Not applicable Product/Substance is inorganic
Autoignition Temperature	Aluminum oxide has no potential to explode.
Decomposition Temperature	~2000 °C (> 2050 °C)
Kinematic viscosity	Not applicable Solid
Dynamic viscosity	Not applicable Solid
Explosive Properties	None
Oxidizing Properties	None

# **10. STABILITY AND REACTIVITY**

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	None known

## **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	Low hazard for usual industrial or commercial handling

#### 11.1. Information on toxicological effects

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- Single exposure	Non-irritant : Rabbit Non-irritant : Rabbit Based on available data, the classification criteria are not met No indication of effects on fertility. No indication of effects on developmental toxicity. Lungs May cause respiratory irritation May cause damage to organs through prolonged or repeated exposure if inhaled 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.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met
<b>Respiratory Sensitization</b>	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.

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity	Based on available data, the classification criteria are not met
Persistence and degradability	No data available
Bioaccumulation	No data available.
Mobility in soil	No data available

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Hazardous to the ozone layer	No data available
	13. DISPOSAL CONSIDERATIONS
Disposal	Dispose of in accordance with federal, state and local regulations
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal

# **14. TRANSPORT INFORMATION**

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

ADR	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	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 user	Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

# **15. REGULATORY INFORMATION**

#### **Global Inventories**

Pure substance/mixture

Substance

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum oxide	1344-28-1		01-211952 9248-35-x xxx 01-211952 9248-35-0		Y	Y	(1)-23 (ENCS)(ISH L)	KE-01012	Y	Y	Y	Y	A

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Legend

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

KECL - Korean Existing and Evaluated Chemical Substances IECSC - China Inventory of Existing Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances TSCA (Toxic Substances Control Act) DSL (Domestic Substance List) NDSL (Non-Domestic Substances List) Japan - ISHL Notifiable Substances ENCS - Japan Existing and New Chemical Substances

Occupational Safety and Health Act (Industrial Safety and Health Act): This product, labor hazardous material should be notified of the names and the monitoring chemicals.

PRTR and Promotion of Chemical Management Law (PRTR Law): This like the Safety and Health Act and harmful substances, the component corresponding to the dangerous goods and hazardous substances should be displayed the name, etc.,

It does not include the range (wt%).

Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (CSCL): This product is a priority assessment substance of Chemical Substances Control Law, does not contain a specific chemical substance, the appropriate component in product is not a component corresponding to the first Class I Designated Chemical Substance PRTR law, within the target range (wt%) as a .

Poisonous and Deleterious Substances Control Act: This product, contains a component corresponding to the Poisonous and Deleterious Substances Control Law, but is does below the range (wt%) as a target. Fire Service Act: This product does not contain substances at a level for restriction is not due to the Fire Defense Law. Ship Safety Act: Not applicable.

Aviation Law: Not applicable.

## **16. OTHER INFORMATION**

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
Reason for Revision	This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)
Bibliography	NITE GHS Classified list Japan Society for occupational health (2015) recommendation of allowable concentrations, etc. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
Abbreviations and acronyms	International Agency for Research on Cancer (IARC) 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 The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) 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)

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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

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End of Safety Data Sheet