# **Safety Data Sheet**



## Martoxid® TM-1250; Martoxid® TM-1320; Martoxid® TM-1410; Martoxid® TM-1420

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® TM-1250; Martoxid® TM-1320; Martoxid® TM-1410; Martoxid®

TM-1420

Pure substance/mixture Substance

Aluminum oxide

**CAS Number** 1344-28-1

Weight-%

Recommended Use Abrasive Adsorbent(s) Catalyst Filler Chemical industry (raw material for the

production of other aluminium compounds), etc.

Company: J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

Atlanta, GA 30339 USA Tel: +1 678 247-7300

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 None

**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

Media

Water spray (fog)

Dry chemical

Foam

Carbon dioxide (CO2)

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the Avoid dust formation

substance or mixture

Fire-fighting measures 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** 

for Firefighters

Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and

Avoid dust formation

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/m³ (respirable dust)

2 mg/m3 (total dust)

**Engineering Measures** Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment** 

**Respiratory Protection** 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:

Color

Physical State Solid

Powder White 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

Odor

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

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**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

Relative Density 4 (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
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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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.

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.

**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 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

### 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 and the second 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**