# HUBER MARTINSWERK

### **Safety Data Sheet**

#### Martoxid® KMS-99

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03 Canadian Workplace Hazardous Material Information System (WHMIS) 2015 Mexico NOM-018-STPS-2000; NOM-018-STPS-2015 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® KMS-99

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

**Recommended Use** Industrial.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company: J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

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

www.hubermaterials.com Internet

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**

### 2.1. Classification of the substance or mixture

**OSHA Regulatory Status** This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

**Physical Hazards** Not classified

Not classified **Health Hazards** 

**Environmental Hazard** Not classified

2.2. Label elements

Symbols/Pictograms None

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**Signal Word** None

**Hazard Statements** None

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**Precautionary Statements** 

Prevention Employ good industrial hygiene practice

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

Do not breathe dust

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

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

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Aluminum oxide	1344-28-1	Y	Y	Y	01-211952924 8-35-xxxx 01-211952924 8-35-0017		-	>96

Legend

X / Y: Complies , - / N: Not Listed , Exempt

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

lenses, if present and easy to do. Continue rinsing.

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Wash with plenty of soap and water. **Skin Contact** 

Rinse mouth thoroughly with water. Ingestion

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

comfortable for breathing.

**Aspiration hazard** Not an expected route of exposure.

4.2. Most important symptoms

and effects, both acute and

May cause irritation to mucous membranes and respiratory tract. Contact with dust can cause mechanical irritation or drying of the skin.

delayed

**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

#### Suitable Extinguishing

Media

Not combustible. Use extinguishing agent suitable for type of surrounding fire. 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.

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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 containment and cleaning up 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. Provide local exhaust ventilation. handling

Handle in accordance with good industrial hygiene and safety practice.

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

including any incompatibilities

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

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

#### 8.1. Control parameters

#### Occupational exposure limits

<u>Aluminum</u> oxide

TWA: 15 mg/m3 total dust **OSHA** 

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

(vacated) TWA: 5 mg/m3 respirable fraction

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

**ACGIH TLV** TWA: 1 mg/m3 respirable fraction

NIOSH Not established TWA 10 mg/m<sup>3</sup> Mexico

**Biological Limit Values:** None

### **DNEL/DMEL** and **PNEC** values Aluminum oxide - 1344-28-1

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

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**Predicted No Effect Concentration (PNEC)** 

Aluminum oxide - 1344-28-1

Sewage treatment plant 20 mg/l

8.2. Exposure controls

**Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 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** In case of inadequate ventilation wear respiratory protection.

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 StateSolid PowderColorWhite (Al203)OdorOdorless

Odor Threshold No information available pH: +/- 9 (10 % / H2O)

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.

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

Flammability (solid, gas) No information available

Upper flammability limit:

Lower flammability limit:

Vapor Pressure1 hPa (2158 °C)Vapor DensityNot applicable

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Melting Point: > 300°C

+/- 3.7 - 3.9 **Relative Density Water Solubility** Insoluble

Solubility in other solvents No information available

**Partition coefficient** Not applicable: Product/Substance is inorganic

No information available **Autoignition Temperature Decomposition Temperature** No information available **Dynamic viscosity** Not applicable Solid

**Explosive Properties** None **Oxidizing Properties** None

### **SECTION 10: Stability and reactivity**

10.1. Reactivity No data available

Stable under normal conditions 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

None under normal processing

10.4. Conditions to avoid Incompatible materials Decomposition Temperature : 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.

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

Avoid contact with eyes **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.

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#### 11.1. Information on toxicological effects

**Aluminum oxide** 

Serious eye damage/eye

Non-irritant : Rabbit

irritation

Skin Corrosion/Irritation

Non-irritant : Rabbit

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.

Target Organ Effects

irget Organ Effects Lungs

Specific target organ toxicity No information available

- Single exposure

Specific target organ toxicity Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect

- Repeated exposure level)

level) 70 mg(Al)/m<sup>3</sup>

Repeated dose toxicity 1- Year Rat NOAEL (No observed adverse effect level)

>=30 mg Al/kg bw

Acute Toxicity Mixture

 $Al_2 O_3$ 

Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect

level) 70 mg(AI)/m<sup>3</sup>. Target Organs Lungs Respiratory system

Repeated dose toxicity 1- Year Oral Rat NOAEL (No observed adverse effect

level) >=30 mg Al/kg bw

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

Serious eye damage/eye

irritation

Non-irritant: Rabbit

Skin Corrosion/Irritation Non-irritant : Rabbit

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

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

**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.

Target Organ Effects Lungs.

Specific target organ toxicity -

Single exposure

No information available.

Specific target organ toxicity -

Repeated exposure

No information available.

### **SECTION 12: Ecological information**

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

Aluminum oxide

WGK Classification (VwVwS) 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. Other adverse effects** None known

### **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

Aluminum oxide

WGK Classification (VwVwS) 1346 WGK: nwg

### **SECTION 14: Transport information**

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

TDG -Canada Not regulated Not regulated ADR Not regulated

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Not regulated IATA 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**

#### **Global Inventories**

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 9248-35-0 017		Y	Y	(1)-23 (ENCS)(ISH L)	KE-01012	Y	Y	Y	Υ	Y

Legend

X / Y: Complies - / N: Not Listed Exempt

#### **US Federal Regulations**

**EPA** 

**CERCLA** Aluminum oxide **SARA 313** 

1.0

#### **SARA 313**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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#### SARA 311/312 Hazardous Categorization

Yes:

Acute health hazard

No:

Chronic health hazard

Fire hazard

Sudden release of pressure hazard

Reactive hazard

Aluminum oxide

Acute Health Hazard Yes [based on aluminum generics]

**Chronic Health Hazard** Fire Hazard Nο Sudden Release of Pressure Hazard No **Reactive Hazard** 

### **CWA (Clean Water Act)**

Not listed

### CAA (Clean Air Act)

Not listed

### U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	California CPR	Massachusetts	Minnesota	New Jersey	Pennsylvania
Aluminum oxide	1344-28-1	-		Listed		Listed	Listed

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

#### **CANADA**

#### WHMIS:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

#### Aluminum oxide

### **SECTION 16: Other information**

Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

regulatory.affairs@huber.com

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**Reason for Version** OSHA (Occupational Safety and Health Administration of the US Department of

Labor).

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

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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

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)

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**