Safety Data Sheet



Martoxid® DN-206; Martoxid® DN-430; Martoxid® DN-440; Martoxid® DN-6

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® DN-206; Martoxid® DN-430; Martoxid® DN-440; Martoxid® DN-6

Pure substance/mixture Substance

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

Recommended Use Abrasive, Polishing agent, 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

Use in textile

Use in functional fluids Use in agrochemicals

Use in water treatment chemicals

Use in mining chemicals Recycling plastics

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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

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

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)

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Not classified **Physical Hazards**

Health Hazards Not classified

Not classified **Environmental Hazard**

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Hazard Statements None

Precautionary Statements

Prevention Employ good industrial hygiene practice

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

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

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

If swallowed, rinse mouth with water (only if the person is conscious)

Drink plenty of water

Store away from incompatible materials Storage

Disposal Dispose of contents/containers in accordance with local regulations

Additional Information: None.

Hazards not otherwise classified Not classified. (HNOC)

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SECTION 3: Composition/information on ingredients

Substance Pure substance/mixture

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

Legend

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

SECTION 4: First aid measures

4.1. Description of first aid measures

When in doubt or if symptoms are observed, get medical advice. Ensure that **General Advice**

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.

Skin Contact Wash with plenty of soap and water.

Ingestion Rinse mouth thoroughly with water.

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

delayed

May cause irritation to mucous membranes and respiratory tract. Contact with dust

can cause mechanical irritation or drying of the skin.

medical attention and special

treatment needed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing

Media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

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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.

Keep unauthorized personnel away. Use personal protection recommended in For emergency responders

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 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. Keep container tightly closed and dry.

including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Occupational exposure limits

Aluminum oxide

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

ACGIH TWA: 10 mg/m³

ACGIH TLV TWA: 1 mg/m³ respirable fraction

NIOSH Not established Mexico TWA 10 mg/m³

Biological Limit Values: None

Derived No Effect Level (DNEL)

Aluminum oxide - 1344-28-1

٧	Vorker - inhalative,	3 mg/m³
le	ong-term - systemic	
C	Consumer - oral, long-term -	6.22 mg/kg bw/d
s	ystemic	

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.

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Environmental Exposure

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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

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

Relative Density 4 (20 °C) Water Solubility Insoluble

Solubility in other solvents No information available

Partition coefficientAutoignition Temperature
Not applicable Product/Substance is inorganic Aluminum oxide has no potential to explode.

Decomposition Temperature
Kinematic viscosity

Dynamic viscosity

A 2000 °C (> 2050 °C)

Not applicable Solid

Not applicable Solid

Explosive PropertiesNone
Oxidizing Properties
None

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

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10.6. Hazardous decomposition None known

products

SECTION 11: Toxicological information

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

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 is not a likely route of exposure Ingestion

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

11.1. Information on toxicological effects

Aluminum oxide

Serious eye damage/eye Non-irritant: Rabbit

irritation

Non-irritant: Rabbit Skin Corrosion/Irritation

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

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

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

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

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

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

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

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

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

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.

SECTION 12: Ecological information

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

Aluminum oxide

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.

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

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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 should be assigned by the user based on the application for which Waste codes

the product was used

Aluminum oxide

WGK Classification (AwSV) 1346 WGK: nwg

SECTION 14: Transport information

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

TDG -Canada Not regulated Not regulated DOT Not regulated ADR Not regulated RID Not regulated **ADN** Not regulated **IATA** Not regulated IMDG/IMO Not regulated **ICAO**

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

Substance Pure substance/mixture

Chemical Name	CAS	EC No	REACH	Australia	Canada	China	Japan	S. Korea	Mexico	New	Philippine	Taiwan	TSCA:	İ
	Number		registrati	(AICS)	(DSL)	(IECSC)		(KECL)		Zealand	s (PICCS)		United	ĺ

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		on number									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	Y	А

Legend

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

US Federal Regulations

EPA

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemicals which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Aluminum oxide

SARA 313 1.0

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	Massachusetts	Minnesota	New Jersey	Pennsylvania
Ī	Aluminum oxide	1344-28-1	-	Listed	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

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.

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)

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