

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), Printing date: 11.06.2018 and US GHS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Revision: 11.06.2018

**Product Identifier** NorZon NV **GHS Product Identifier** NorZon NV

> **Chemical Name** Mixture (Mixed Oxides) **Trade Name** See Product Identifier

CAS No. Not available **EINECS No.** Not available **REACH Registration No.** Not available

Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against 1.2

No further relevant information available.

Application of the **Product Component** substance / the mixture

1.3 **Details Of The Supplier Of The Safety Data Sheet** 

> Company Identification Washington Mills Electro Minerals Corp.

Address 1801 Buffalo Avenue

Niagara Falls, NY 14302 Telephone (716) 278-6600

E-Mail (Competent Person) info@washingtonmills.com

1.4 Emergency Telephone Number - ChemTel

(800)255-3924 (USA/Canada), 813-248-0585 (International)

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification Of The Substance Or Mixture

#### 2.1.1 Classification according to Regulation (EC) No. 1272/2008

The product is not classified as hazardous according to OSHA GHS regulations within the United States. The product is not classified as hazardous according to the CLP regulation.

#### Additional information:

Product has less than 0.1% inhalable dust containing known and/or suspect carcinogens per established guidelines, and is therefore not classifiable as a carcinogen.

There are no other hazards not otherwise classified that have been identified.

2.2 **Label Elements** 

2.2.1 Labelling according to Regulation (EC) No 1272/2008 (CLP) - Not Regulated

Hazard Not Regulated Signal Not Regulated

Pictogram(s) Word(s)

Hazard-determining components of labelling: None

Hazard Not Regulated

statement(s)

Hazard description:

NFPA ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

**HMIS-ratings** (scale 0 - 4)

0 REACTIVITY 0

Health = \*0Fire = 0Reactivity = 0

**HMIS Long** Term Health

None of the ingredients are listed. Hazard

Substances

2.3 Other Hazards

> Results of PBT PBT: Not applicable. and vPvB vPvB: Not applicable.

assessment

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

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## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous Components:** 

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Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pictogram(s)	Hazard Statement(s)
aluminium oxide	50-100	1344-28-1	215-691-6		substance with a Community workplace exposure limit
zirconium dioxide	25-50	1314-23-4	215-227-2		substance with a Community workplace exposure limit
titanium dioxide	≤ 2,5	13463-67-7	236-675-5		substance with a Community workplace exposure limit

**Dangerous Components (Alternative Classifications):** 

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pictogram	S) Hazard Statement(s) and Risk (R) Phrase(s)
titanium dioxide	≤ 2,5	13463-67-7	236-675-5	Carc. 2, I	1351

**Additional information:** For the wording of the listed risk phrases refer to section 16. Non-classification as a carcinogen is based on non-inhalable form of product. IARC listings for titanium dioxide note that substance must be respirable.

#### **SECTION 4: FIRST AID MEASURES**

4.1 Description of First Aid Measures

**General Information:** No special measures required.

**After Inhalation:** Unlikely route of exposure. Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Brush off loose particles from skin. Wash with soap and water. If skin irritation is

experienced, consult a doctor.

After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes under

running water. If symptoms persist, consult a doctor.

**After Swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for

medical help immediately.

4.2 Most Important

Symptoms And Effects, Both Acute

And Delayed

Slight irritant effect on eyes.

**Hazards** No further relevant information available.

4.3 Indication Of The

Immediate Medical

Attention And Special Treatment Needed No further relevant information available.

## **SECTION 5: FIRE-FIGHTING MEASURES**

5.1	Extinguishing Media	
	Suitable Extinguishing	Use fire extinguishing methods suitable to surrounding conditions.
	Agents	
	Unsuitable Extinguishing	None.
	Agents	
5.2	Special Hazards Arising	No further relevant information available.
	From The Substance Or	
	Mixture	
5.3	Advice for Fire-Fighters	Wear self-contained respiratory protective device. Wear fully protective suit.
	Additional Information	No further relevant information available.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal Precautions, Avoid formation of dust. For large spills, wear protective clothing. **Protective Equipment And** For large spills, use respiratory protective device against the effects of **Emergency Procedures** fumes/dust/aerosol. Ensure adequate ventilation 6.2 **Environmental Precautions** No special measures required. 6.3 **Methods And Material For** Pick up mechanically. Send for recovery or disposal in suitable **Containment And Cleaning Up** receptacles. Ensure adequate ventilation. Dispose contaminated material as waste according to item 13. **Reference To Other Sections** 6.4 See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### **SECTION 7: HANDLING AND STORAGE**

**Precautions For Safe** Use only in well ventilated areas. Prevent formation of dust. Any unavoidable deposit 7.1 Handling of dust must be regularly removed. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. **Information About** No special measures required. Fire - and explosion protection 7.2 Conditions For Safe Storage, Including Any Incompatibilities: Requirements to be Store in a cool location. **Met by Storerooms** and Receptacles: **Information About** Store away from oxidizing agents. Store away from foodstuffs. Do not store together Storage in One with acids. **Common Storage** Facility: **Further information** Store in cool, dry conditions in well sealed receptacles. about storage conditions: Specific End Use(s) No further relevant information available.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional informat 8.1 Control Parar		ign of technical f	acilities: No further data; see item 7.
Ingredients with limit	values that req	uire monitoring at	the workplace:
		PEL (USA)	Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
aluminium oxide	1344-28-1	TLV (USA)	Long-term value: 1* mg/m³ as AI; *as respirable fraction
		EL (Canada)	Long-term value: 1,0 mg/m³ respirable, as Al
		EV (Canada)	Long-term value: 10 mg/m³ total dust
		PEL (USA)	Long-term value: 5 mg/m³ as Zr
zirconium dioxide	1314-23-4	REL (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr
		TLV (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³

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as Zr Short-term value: 10 mg/m<sup>3</sup> EL (Canada) Long-term value: 5 mg/m<sup>3</sup> as Zr Long-term value: 15\* mg/m³ PEL (USA) \*total dust REL (USA) See Pocket Guide App. A Long-term value: 10 mg/m<sup>3</sup> TLV (USA) titanium dioxide 13463-67-7 withdrawn from NIC Long-term value: 10\* 3\*\* mg/m³ EL (Canada) \*total dust; \*\* respirable fraction; IARC 2B Long-term value: 10 mg/m<sup>3</sup> EV (Canada) total dust

**DNELs** No further relevant information available. PNECs No further relevant information available.

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Additional information: The lists valid during the making were used as basis.

8.2	Exposure Contro	ols
8.2.2	Personal Protect	ive Equipment:
	General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin.
	Respiratory Protection	Suitable respiratory protective device recommended. For spills, respiratory protection may be advisable. Use suitable respiratory protective device when high concentrations are present.
	Eye Protection	Safety glasses.
	Protection of Hands	Wear protective gloves.
	Body Protection	Not required under normal conditions of use. Protection may be required for spills.
	Limitation and supervision of exposure into the environment	No special requirements.
	Risk Management Measures	No special requirements.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Granulate	Color	Grev
Odor	Odourless	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available	Boiling Point/Boiling Range (°C)	Not available
Flash Point (°C)	No Data	Explosive Limit Ranges	Not available
Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
Explosive Properties	None	Oxidizing Properties	Not available
Flammability (Solid, Gas)	Not available	Ph (Value)	Not available
Evaporation Rate	N/A	Vapor Pressure (mm Hg)	Not available

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Density at 20 °C: Vapor Density (Air=1) N/A 4,6 g/cm<sup>3</sup> Solubility (Other) Solubility (Water) Insoluble Not available Partition Coefficient (N-Not available Viscosity (mPa.s) Not available Octanol/Water) 9.2 Other Information No further relevant information available.

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

10.2 **Chemical Stability** 

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**Thermal Decomposition / conditions** No decomposition if used according to specifications.

to be avoided:

10.3 **Possibility of Hazardous Reactions** Reacts with strong acids and alkali. Reacts with strong

oxidising agents.

10.4 **Conditions To Avoid** No further relevant information available. 10.5 **Incompatible Materials** No further relevant information available.

10.6 Hazardous Decomposition Product(s) No dangerous decomposition products known.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on Toxicological Effects

Acute toxicity:

**Primary Irritant Effect:** 

On the skin: No irritant effect. On the eye: No irritating effect.

Sensitisation: No sensitizing effects known.

Additional toxicological When used and handled according to specifications, the product does not have any harmful effects to our experience information:

and the information provided to us.

The substance is not subject to classification according to the

latest version of the EU lists.

CMR effects (carcinogenity, Contains known or suspect carcinogens when inhaled. mutagenicity, and toxicity for

Product is in non-inhalable form and is non-classifiable as a

reproduction): carcinogen.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** 

Aquatic toxicity: No further relevant information available. Persistence and Degradability 12.2 No further relevant information available. **Bioaccumulative Potential** 12.3 No further relevant information available.

**Mobility in Soil** 12.4

Additional ecological information:

**General notes:** 

Not known to be hazardous to water. Results of PBT and vPvB PBT: Not applicable.

12.5 **Assessment** vPvB: Not applicable.

12.6 Other Adverse Effects No further relevant information available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods** 13.1

Recommendation Contact waste processors for recycling information. The user of this material

has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous

wastes. Residual materials should be treated as hazardous.

No further relevant information available.

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**Uncleaned Packaging:** 

Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: TRANSPORT INFORMATION**

Land Transport (ADR/RID) (c)(d) Land Transport (Within USA) (b)(d) **UN Number** Not classified as Not classified as dangerous for Proper Shipping Name Proper Shipping Name dangerous for transport. transport. Transport Hazard Class(es) Transport Hazard Class(es) None Packing Group None Packing Group None Hazard Label(s) Hazard Label(s) None None **Environmental Hazards** None **Environmental Hazards** None Special Precautions For User None Special Precautions For User None Sea Transport (IMDG) (c) Air Transport (ICAO/IATA) (c) (d) **UN Number UN Number** None None Not classified as Not classified as dangerous for Proper Shipping Name Proper Shipping Name dangerous for transport. transport. Transport Hazard Class(es) Transport Hazard Class(es) None None **Packing Group** None Packing Group None Marine Pollutant Marine Pollutant None None

(b)- ORM-D may be applicable within the USA for package sizes less than 30kg.

None

(c)- Consult with transport provider.

Special Precautions For User

(d)- Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

#### **SECTION 15: REGULATORY INFORMATION**

#### 15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

# SARA

**United States (USA)** 

Section 355 (extremely hazardous

substances)

SARA 313 (Specific toxic chemical listings)

None of the ingredients are listed.

Aluminum oxide listing is only relevant to fibrous forms and is not applicable to the product as supplied.

TSCA (Toxic Substance Control Act)

All ingredients are listed.

Special Precautions For User None

Proposition 65 (California):

Chemicals known to cause cancer:

Reference to Titanium Dioxide is based on unbound

respirable particles and is not generally applicable to

product as supplied.

13463-67-7 titanium dioxide

Chemicals known to cause reproductive

toxicity for females:

None of the ingredients are listed.

toxicity for males:

Chemicals known to cause reproductive

None of the ingredients are listed.

Chemicals known to cause developmental

toxicity:

None of the ingredients are listed.

**Carcinogenic Categories** 

EPA (Environmental Protection Agency)

None of the ingredients are listed.

IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide

2B

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TLV (Threshold Limit Value established by 1344-28-1 aluminium oxide Α4 1314-23-4 zirconium dioxide Α4 13463-67-7 titanium dioxide A4 **MAK (German Maximum Workplace** 1344-28-1 aluminium oxide 2 Concentration) 13463-67-7 titanium dioxide ЗА NIOSH-Ca (National Institute for 13463-67-7 titanium dioxide **Occupational Safety and Health)** Canada Canadian Domestic Substances List (DSL) All ingredients are listed. Other regulations, limitations and prohibitive regulations Substances of very high concern (SVHC) None of the ingredients are listed.

15.2 **Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Additional information:

- The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.
- The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

#### Abbreviations and acronyms:

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

according to REACH, Article 57

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

#### Sources

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