ADVANCED MATERIALS

Safety Data Sheet

Onyx Elite® 100

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 GHS (Globally Harmonized System)

Issue Date 21/Feb/2023 **Revision Number** 1.3.1 Print Date 31/May/2023

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Onyx Elite® 100

Pure substance/mixture Substance

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

Recommended Use Flame retardant

None known. Uses advised against

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

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

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

Standard (29 CFR 1910.1200)

Not classified **Physical Hazards**

Health Hazards Not classified

Environmental Hazard Not classified

2.2. Label elements

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 2 of 11

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

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

Pure substance/mixture Substance

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	EU REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Aluminum Hydroxide	21645-51-2	Α	Y	Y	01-211952924 6-39	Not classified		100

Legend

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

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 In case of eye contact, remove contact lens and rinse immediately with plenty of

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1 Print Date 31/May/2023

Page 3 of 11

water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash with plenty of soap and water.

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.

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

4.2. Most important symptoms

and effects, both acute and delayed

Signs and symptoms may include coughing, gasping, choking and difficulty

breathing.

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).

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

Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. Keep unauthorized personnel away.

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1 Print Date 31/May/2023 Page 4 of 11

emergency procedures

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

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 containment and cleaning up

disposal container

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) Flame retardant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Aluminum Hydroxide

OSHA TWA: 15 mg/m3 Total Dust 5 mg/m³ Respirable Dust

ACGIH TLV/TWA 8-hr: 1 mg/m³ (respirable fraction)

Canada - Nova Scotia - OEL - TWA 1 mg/m³ TWA (respirable fraction)

PNEC (Predicted No Effect

Concentration)

No information available

DNEL (Derived No Effect Level) Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/day

Worker - inhalative, long-term - local and systemic 10.74 mg/m³

Biological Limit Values None

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1

Print Date 31/May/2023 Page 5 of 11

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Provide a good

standard of controlled ventilation (10 to 15 air changes per hour).

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.

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 State Solid Powder Odor Odorless

Odor Threshold No information available

pH: 8.4 - 10.2 5% Water suspension ca 300 °C / 572 °F (101.3 kPa) Initial boiling point 5396 °F (2980 °C) 101.3 kPa

Freezing Point

Flash Point

Evaporation Rate
Flammability (solid, gas)

Flammability (solid, gas)

Not applicable
Not applicable
Not applicable
Not applicable

Upper flammability limit: -Lower flammability limit: --

Vapor PressureNot applicableVapor DensityNot applicableVapor DensityNot applicableDensityNo data availableRelative Density2.4 g/cm3, 20° C

Water Solubility Insoluble

Solubility in other solvents

Partition coefficient

No information available
No information available

Autoignition Temperature Not applicable Decomposition Temperature 392 °F (200 °C)

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 **Revision Number** 1.3.1 Print Date 31/May/2023

Page 6 of 11

Viscosity Not applicable. Not applicable Kinematic viscosity

None **Explosive Properties**

Not applicable **Oxidizing Properties**

Particle Size No information available

Not applicable **VOC Content (%)**

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

None 10.1. Reactivity

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

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.

11.1. Information on toxicological effects

Aluminum Hydroxide

Oral LD50 > 2000 mg/kg Rat

Inhalation LC50 Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration

Not Listed **IARC**

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

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

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 7 of 11

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

Respiratory Sensitization No information available

Serious eye damage/eye

irritation

Non-irritant Rabbit

Skin Corrosion/Irritation Non-irritant Rabbit

Skin SensitizationBased on available data, the classification criteria are not met Not a skin sensitizer

Guinea pig

Mutagenicity in vitro Not genotoxic in bacteria and mammalian cell systems.

in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence

approach)

Germ cell mutagenicity No information available.

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

Specific target organ toxicity -

Single exposure

Not classified.

Specific target organ toxicity -

Repeated exposure

No information available.

Mixture versus substance

information

No information available

Information on Likely Routes of Exposure

Inhalation Do not breathe dust

Inhalation of dust may cause irritation of the respiratory system

Ingestion Ingestion is not a likely route of exposure

Skin Contact with dust can cause mechanical irritation or drying of the skin

Eyes Dust contact with the eyes can lead to mechanical irritation

Aspiration hazard Not an expected route of exposure.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information

Not applicable

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1

Print Date 31/May/2023 Page 8 of 11

SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence andThe methods for determining biodegradability are not applicable to inorganic

degradability substances.

12.3. Bioaccumulative potential Not likely to bioaccumulate.

Partition coefficient No information available

Bioconcentration factor

(BCF)

Not available.

12.4. Mobility in soilNo information available.

12.5. Results of PBT and vPvB This s

assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting

properties

This product does not contain any known or suspected endocrine disruptors

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.

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

the product was used

Aluminum Hydroxide

European Waste Catalog 060299

WGK Classification (AwSV) 5220 WGK: nwg

SECTION 14: Transport information

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 9 of 11

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

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

14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

Global Inventories

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	EU REACH registrati on number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	01-211952 9246-39	Υ	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Υ	А

Legend

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US Federal Regulations

EPA

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Revision Number 1.3.1
Print Date 31/May/2023 Page 10 of 11

SARA 304 Not regulated

Aluminum Hydroxide

CERCLA Not listed SARA 302 Not listed

CWA (Clean Water Act)

Not regulated

CAA (Clean Air Act)

Not regulated

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania	
Aluminum Hydroxide	21645-51-2	N	N	N	N	N	

Legend Y: Listed; N: Not Listed

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

SF	ECTI	\mathbf{ON}	16.	Other	info	ormation

Prepared by Huber Engineered Materials (HEM) Global Regulatory Affairs

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Reason for Version Revised Section(s):. 12.

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.

Abbreviations and acronyms IARC (International Agency for Research on Cancer)

IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)

IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System)

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA (Time-Weighted Average)

CLP (The Classification, Labeling and Packaging of Substances and Mixtures 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)

Safety Data Sheet

Onyx Elite® 100

Issue Date 21/Feb/2023 Print Date 31/May/2023 Revision Number 1.3.1 Page 11 of 11

RQ (Reportable Quantity) (RQ/% in mixture)

STEL (Short Term Exposure Limit) TLV® (Threshold Limit Value)

DNEL (Derived No Effect Level)

SVHC (Substances of Very High Concern)

BOD (Biochemical oxygen demand)

COD (Chemical oxygen demand)

ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)

ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)

SARA (Superfund Amendments and Reauthorization Act of 1986)

TSCA (Toxic Substances Control Act)

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