

# SAFETY DATA SHEET

## WN408AEU-9502

Version 1.0

Revision Date 08/25/2021

Former date -

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : WN408AEU-9502

#### Manufacturer or supplier's details

Supplier : Borealis Compounds Inc  
176 Thomas Road, NJ 07865 Port Murray, United States of America (USA)  
Telephone: +1 908 850 6200

E-mail address : [sds@borealisgroup.com](mailto:sds@borealisgroup.com)

Emergency telephone number : +1 215 207 0061 (regional number, NCEC Carechem 24)  
Borealis Compounds Inc, Borealis North America HSE: 908-850-6200 for Monday – Friday 8-4:30pm excluding holidays

#### Recommended use of the chemical and restrictions on use

Recommended use : Raw material for plastics industry

Restrictions on use : Use only according to our recommendations.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Other hazards

Warning!

May form combustible dust concentrations in air (during processing).

The product burns, but is not classified as flammable.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : The product is a polyethylene copolymer compound.

#### Hazardous components

Chemical name	CAS-No.	Concentration (%)
magnesium silicate	14807-96-6	$\geq 30$ - $< 50$
carbon black	1333-86-4	$\geq 1$ - $< 5$

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)

# SAFETY DATA SHEET

**WN408AEU-9502**

Version 1.0

Revision Date 08/25/2021

Former date -

Actual concentration is withheld as a trade secret

---

## SECTION 4. FIRST AID MEASURES

- |   |  |
|---|--|
| If inhaled  | : Move to fresh air.   |
| In case of skin contact                                     | : If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage. Obtain medical attention. |
| In case of eye contact                                      | : Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.  |
| If swallowed  | : Rinse mouth with water. Consult a physician if necessary.  |
| Most important symptoms and effects, both acute and delayed | : Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.              |
| Notes to physician  | : Treat symptomatically. No specific instructions needed.  |

---

## SECTION 5. FIREFIGHTING MEASURES

- |   |  |
|---|--|
| Suitable extinguishing media                  | : Water in spread jet, dry chemicals, foam or carbon dioxide.  |
| Unsuitable extinguishing media                | : High volume water jet  |
| Specific hazards during firefighting          | : Principal toxicant in the smoke is carbon monoxide.<br><br>Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus and protective suit.   |

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- |  |   |
|--|---|
| Personal precautions, protective equipment and | : Use personal protective equipment. Ensure adequate ventilation. |
|--|---|

# SAFETY DATA SHEET

**WN408AEU-9502**

Version 1.0

Revision Date 08/25/2021

Former date -

emergency procedures

Environmental precautions : Should not be released into the environment.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

Methods and materials for containment and cleaning up : Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Non-sparking tools should be used.  
Vacuum or sweep up spill.  
All spill of material must be removed immediately to prevent slipping accidents.  
Recycle or dispose loose material properly.  
Do not flush into surface water or sanitary sewer system.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Dust from the product gives a potential risk for dust explosion. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. All equipment shall be grounded.

Advice on safe handling : During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Provide adequate ventilation. Local exhaust ventilation may be necessary. Avoid inhalation of dust and decomposition fumes. Avoid contact with skin and eyes.

Conditions for safe storage : Safety aspects do not require any special precautions in terms of storage.

Further information on storage stability : Keep in a dry place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
magnesium silicate	14807-96-6	TWA (Respirable)	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	ACGIH

# SAFETY DATA SHEET

## WN408AEU-9502

Version 1.0

Revision Date 08/25/2021

Former date -

		(Respirable particulate matter)		
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m <sup>3</sup>	OSHA P0
		TWA	0.1 fibres per cubic centimeter	ACGIH
		PEL (Respirable dust)	2 mg/m <sup>3</sup>	CAL PEL
carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	NIOSH REL
		TWA	3.5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	3.5 mg/m <sup>3</sup>	OSHA P0
		TWA	0.1 mg/m <sup>3</sup> (PAHs)	NIOSH REL
		TWA (Inhalable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		PEL	3.5 mg/m <sup>3</sup>	CAL PEL

**Engineering measures** : Provide adequate ventilation.  
Local exhaust ventilation may be necessary.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

### Personal protective equipment

**Respiratory protection** : In case of dust development use dust mask.  
In the case of vapour formation use a respirator with an approved filter.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

# SAFETY DATA SHEET

## WN408AEU-9502

Version 1.0

Revision Date 08/25/2021

Former date -

Remarks	: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wear suitable gloves.
Eye protection	: Safety glasses
Skin and body protection	: Protective clothing
Hygiene measures	: When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: pellets
Colour	: black
Odour	: odourless
pH	: Not applicable insoluble
Melting range	: 130 - 170 °C
Boiling range	: Decomposes on heating.
Flash point	: Not applicable (solid)
Evaporation rate	: Not applicable (solid)
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable (solid)
Density	: 1.3 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: Not applicable insoluble
Viscosity	

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)

# SAFETY DATA SHEET

## WN408AEU-9502

Version 1.0

Revision Date 08/25/2021

Former date -

Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: The product is a stable thermoplastic, with no chemical reactivity.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: None known.
Hazardous decomposition products	: Under fire conditions: Carbon monoxide

During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Skin corrosion/irritation

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 or skin sensitisation

##### Skin sensitisation

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

##### Respiratory sensitisation

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

##### Germ cell mutagenicity

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

# SAFETY DATA SHEET

**WN408AEU-9502**

Version 1.0

Revision Date 08/25/2021

Former date -

## Carcinogenicity

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

### IARC

Group 1: Carcinogenic to humans

magnesium silicate 14807-96-6

Group 2B: Possibly carcinogenic to humans

carbon black 1333-86-4

### NTP

Known to be human carcinogen

magnesium silicate 14807-96-6

## Reproductive toxicity

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

### STOT - single exposure

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

### STOT - repeated exposure

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

## Aspiration toxicity

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

## Further information

### Product:

Remarks: Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.

# SAFETY DATA SHEET

**WN408AEU-9502**

Version 1.0

Revision Date 08/25/2021

Former date -

## Mobility in soil

### **Product:**

Mobility : Remarks: Not expected to adsorb on soil.

## Other adverse effects

### **Product:**

Additional ecological information : Should not be released into the environment.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : This substance, when discarded or disposed of is not specifically listed as a hazardous waste in Federal regulations. However, it could be hazardous if it is considered toxic, corrosive, ignitable or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste.  
The transportation, storage, treatment and disposal of this waste material must be conducted in accordance with all applicable Federal, state and local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

### National Regulations

#### **49 CFR**



# SAFETY DATA SHEET

**WN408AEU-9502**

Version 1.0

Revision Date 08/25/2021

Former date -

Not regulated as a dangerous good

**Special precautions for user**

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

---

## SECTION 15. REGULATORY INFORMATION

Borealis certifies that all chemical substances in this shipment comply with all applicable rules or orders under TSCA and that Borealis is not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

The product is classified and labelled in accordance with Hazard Communication Standard 2012 (29 CFR 1910.1200)

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**California Regulated Carcinogens**

magnesium silicate

14807-96-6

---

## SECTION 16. OTHER INFORMATION

# SAFETY DATA SHEET

**WN408AEU-9502**

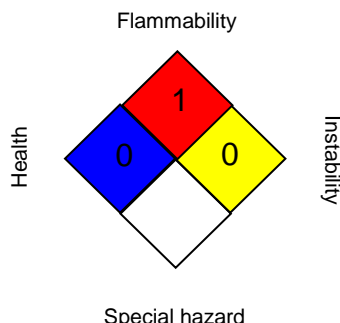
Version 1.0

Revision Date 08/25/2021

Former date -

## Further information

### NFPA:



### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Sources of key data used to compile the Safety Data Sheet : Safety data sheets of raw material suppliers.

Revision Date : 08/25/2021

### Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

**BOREALIS MAKES NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN. NOTHING HEREIN SHALL CONSTITUTE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**IT IS THE CUSTOMER'S RESPONSIBILITY TO INSPECT AND TEST OUR PRODUCTS IN ORDER TO SATISFY ITSELF AS TO THE SUITABILITY OF THE PRODUCTS FOR THE CUSTOMER'S PARTICULAR PURPOSE. THE CUSTOMER IS RESPONSIBLE FOR THE APPROPRIATE, SAFE AND LEGAL USE, PROCESSING AND HANDLING OF OUR PRODUCTS.**

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

# SAFETY DATA SHEET

**WN408AEU-9502**

Version 1.0

Revision Date 08/25/2021

Former date -

---