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# Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA

Printing date: 30 March 2020 Revision: 30 March 2020

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

- · 1.1 Product identifier
- · Trade name: AZ Code 9306, 1368, #290, #1610
- · Other means of identification: AZ40
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture: Industrial uses.
- · 1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:
   Saint Gobain Coating Solutions
   One New Bond Street
   Worcester, MA 01615-0137
   (508) 795-5000
   CeramicMaterials@saint-gobain.com
- 1.4 Emergency telephone number:

CHEMTREC

1-800-424-9300 (US/Canada)

+01 703-527-3887 (International)

#### **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

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:

Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

This product does not have a classification according to the CLP regulation.

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

- · Hazard pictograms Not Regulated
- · Signal word Not Regulated
- · Hazard-determining components of labelling: Not Regulated.
- · Hazard statements Not Regulated.
- · Precautionary statements Not Regulated.
- Additional information:

Safety data sheet available on request.

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· NFPA ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



□ Health = 0 Fire = 0 

- 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

· Components:		
CAS: 1344-28-1 EINECS: 215-691-6 Reg.nr.: 01-2119529248-35-XXXX	aluminium oxide substance with a Community workplace exposure limit	50-80%
CAS: 1314-23-4 EINECS: 215-227-2 Reg.nr.: 01-2119486976-14-XXXX	zirconium dioxide substance with a Community workplace exposure limit	20-45%
CAS: 12055-23-1 EINECS: 235-013-2 Reg.nr.: 01-2119967820-31-XXXX	hafnium dioxide substance with a Community workplace exposure limit	0-1%

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Brush off loose particles from skin.

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn, if possible.

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.

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#### · 4.2 Most important symptoms and effects, both acute and delayed

Slight irritant effect on skin and mucous membranes.

Slight irritant effect on eyes.

Nausea in case of ingestion.

May cause gastro-intestinal irritation if ingested.

Coughing

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:

The product is not flammable.

Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

Do not breathe dust.

- **6.2 Environmental precautions** Avoid release to the environment.
- · 6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose of the material collected according to regulations.

Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections

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**

#### · 7.1 Precautions for safe handling

Use only in well ventilated areas.

Prevent formation of dust.

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Any unavoidable deposit of dust must be regularly removed.

- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · 7.3 Specific end use(s) No further relevant information available.

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

8.1 Control parameters

- OIT COMMON PARA					
	Ingredients with limit values that require monitoring at the workplace:				
	1344-28-1 aluminium oxide				
WEL (Great Britain	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust				
PEL (USA)	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction				
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.				
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction				
1314-23-4 zirconiu	1314-23-4 zirconium dioxide				
WEL (Great Britain	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr				
PEL (USA)	Long-term value: 5 mg/m³ as Zr				
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 as Zr				
12055-23-1 hafnium dioxide					
PEL (USA)	Long-term value: 0,5 mg/m³ as Hf				
REL (USA)	Long-term value: 0,5 mg/m³ as Hf				
TLV (USA)	Long-term value: 0,5 mg/m³ as Hf				
· DNELs: No further	DNELs: No further relevant information available.				

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- · PNECs: No further relevant information available.
- 8.2 Exposure controls
- · Engineering measures Provide adequate ventilation.
- · Personal protective 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.

Do not breathe dust.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

· Respiratory protection:

NIOSH or EU approved dust respirator should be used for operations generating dust.

Particulate mask should filter at least 99% of airborne particles.

· Protection of hands:

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

· Eye protection:



Safety glasses

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment: Avoid release to the environment.
- · Risk management measures: No further relevant information available.

9.1 Information on basic physica	al and chemical properties	
Appearance		
Form:	Powder	
Colour:	Grey	
Odour:	Not determined.	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Melting point/freezing point:	Not determined.	
Initial boiling point and boiling rang	e: Not determined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Auto/Self-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	

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Upper:	Not determined.	
Oxidising properties	Non-oxidising.	
Vapour pressure:	Not applicable.	
Density:		
Relative density:	Not determined.	
Vapour density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	
Partition coefficient: n-octanol/	water: Not determined.	
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	

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

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Reacts with strong acids and alkali.

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

- · 10.4 Conditions to avoid Prevent formation of dust.
- · 10.5 Incompatible materials Oxidisers, strong bases, strong acids
- 10.6 Hazardous decomposition products Toxic metal compounds

#### **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification: None.
- · Primary irritant effect
- · Skin corrosion/irritation: Slight irritant effect on skin and mucous membranes.
- · Serious eye damage/irritation: Slight irritant effect on eyes.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

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· Carcinogenic categories

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable routes of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

· Repeated dose toxicity:

Repeated or long-term inhalation of product dusts may cause pulmonary disease.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · 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 hazard: Based on available data, the classification criteria are not met.

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

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Smaller quantities can be disposed of with household waste.

Contact waste processors for recycling information.

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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.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN-Number · DOT, ADR, IMDG, IATA	Not Regulated	
· 14.2 UN proper shipping name · DOT, ADR, IMDG, IATA	Not Regulated	
14.3 Transport hazard class(es)		
· DOT, ADR, IMDG, IATA · Class · Label	Not Regulated	
· 14.4 Packing group · DOT, ADR, IMDG, IATA	Not Regulated	
· 14.5 Environmental hazards: · Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann of Marpol and the IBC Code	Not applicable.	

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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· Proposition 65 (California):

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

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)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

- National regulations:
- · Water hazard class: Generally not hazardous for water.
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

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.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistant, Bio-accumulable, Toxique SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

#### · Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

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