

Safety Data Sheet

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

Version: 1.1

Revision: 4/26/2022

Trade Name: AUS-V™ Aggregate - White Aluminum Oxide

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

1.1 Product identifier

Trade Name: AUS-V™ Aggregate - White Aluminum Oxide

1.2 Article No.: AUS-V™ Aggregate - White Aluminum Oxide

1.3 Details of the supplier of the Safety Data Sheet Manufacturer:

Elite Crete Systems
 1151 Transport Drive
 Valparaiso, IN 46383
 Toll Free: 888.323.4445
 Tel: (219) 465-7671
elitecrete.com

1.4 Emergency telephone number:

CHEMTREC US DOMESTIC: (800-424-9300)
 CHEMTREC INTERNATIONAL: (703-527-3887)

2 Hazards identification

2.1 Classification of the substance or mixture

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

The product is not classified as hazardous according to the Globally Harmonized System (GHS).
 The product is not classified as hazardous according to the OSHA GHS regulation within the United States.
 The product is not classified as hazardous according to the CLP regulation.

Additional information:

There are no other hazards not otherwise classified that have been identified.
 0% of the mixture consists of component(s) of unknown toxicity.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP):

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.

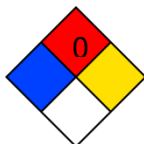
Hazard: Not regulated

Signal Word: Not regulated

Hazard-determining components of labeling: None

Hazard statements: Not regulated

NFPA ratings (scale 0 - 4)



Health = 0
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health	2
Fire	1
Reactivity	0

Health = 2
 Fire = 1
 Reactivity = 0

2.3 Other hazards results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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3 Composition/information on ingredients

3.1 Substances

CAS No. Description

1344-28-1 aluminum oxide

Identification number(s)

EC number: 215-691-6

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. 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 any immediate medical attention and special treatment needed:

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid formation of dust. For large spills, wear protective clothing. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

6.2 Environmental precautions:

No special measures required.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13.

6.4 References 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.

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7 Handling and storage

7.1 Precautions for safe handling

Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Prevent formation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.

7.3 Specific end use(s):

No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Aluminum Oxide	1344-28-1	PEL (USA)	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m ³ As Al *Total dust **Respirable/pyro powd./welding f.
		TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
		EL (Canada)	Long-term value: 1,0 mg/m ³ respirable, as Al
		EV (Canada)	Long-term value: 10 mg/m ³ total dust

DNELs No further relevant information available.

PNECs No further relevant information available.

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Do not inhale dust / smoke / mist. Avoid close or long term contact with the skin. Keep away from foodstuffs, beverages and feed.

Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.



Protection of hands:

Wear protective gloves



Eye protection:

Wear safety glasses

Body Protection:

Not required under normal conditions of use. Protection may be required for spills.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Powder	Color	White
Odor	Characteristic	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	2050 °C (3812 °F)	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
Vapor Density (Air=1)	N/A	Density (g/ml)	3,88 g/cm ³
Solubility (Water)	Insoluble	Solubility (Other)	Not available
Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.s)	Not available

9.2 Other information

Volatile Organic Chemical (VOC) Content – Not Available.

10 Stability and reactivity

10.1 Reactivity:

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong acids and alkali. Reacts with strong oxidizing agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Possible in traces

11 Toxicological information

11.1 Information on toxicological effects:

LD/LC50 values relevant for classification: None

Primary irritant effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes.

Sensitization: No sensitizing effects known.

Additional toxicological information: The substance is not subject to classification according to the latest version of the EU lists.

CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction): No further relevant information available.

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12 Ecological information

12.1 Toxicity: No data

Aquatic toxicity: No further relevant information available

12.2 Persistence and degradability: Inorganic product, is not eliminable from water by means of biological cleaning processes.

12.3 Bio accumulative potential: Does not accumulate in organisms.

12.4 Mobility in soil: No further relevant information available.

General notes: Generally not hazardous for water.

12.5 Results of PBT and vPvB assessment: Not applicable

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Smaller quantities can be disposed of with household waste. 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.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land Transport (ADR/RID) (c)(d)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None
Packing Group	None
Hazard Label(s)	None
Environmental Hazards	None
Special Precautions For User	None

Sea Transport (IMDG) (c)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None
Packing Group	None
Marine Pollutant	None
Special Precautions For User	None

Land Transport (Within USA) (b)(d)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None
Packing Group	None
Hazard Label(s)	None
Environmental Hazards	None
Special Precautions For User	None

Air Transport (ICAO/IATA) (c) (d)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None
Packing Group	None
Marine Pollutant	None
Special Precautions For User	None

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

(c)- Consult with transport provider.

(d)- Check relevant regulations for Special Provisions.

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

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): Substance is not listed

Section 313 (Toxic Release Inventory): Aluminum oxide listing is only relevant to fibrous forms and is not applicable to the product as supplied.

TSCA (Toxic Substances Control Act): Substance is listed.

Proposition 65 (California):

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Canada

Canadian Domestic Substances List (DSL): Substance is listed

Canadian Ingredient Disclosure list (limit 0.1%): Substance is not listed

Canadian Ingredient Disclosure list (limit 1%): Substance is listed

Carcinogenic Categories

EPA (Environmental Protection Agency): Substance is not listed

IARC (International Agency for Research on Cancer): Substance is not listed

TLV (Threshold Limit Value established by ACGIH): 1344-28-1 aluminum oxide

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MAK (German Maximum Workplace Concentration): 1344-28-1 aluminum oxide

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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:

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.
 ACGIH: American Conference of Governmental Industrial Hygienists.
 EINECS: European Inventory of Existing Commercial 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).
 LC50: Lethal concentration, 50 percent.
 LD50: Lethal dose, 50 percent.