NEW DIMENSIONS SOLUTIONS, LLC
3960 Howard Hughes Drive, Suite 500
Las Vegas, NV 89169
(800) 731-2231

Safety data sheet

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

Revision: 3.20.2020

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

1.1 Product Identifier **ND AGGREGATE™ BROWN**

Product Code AGR11B, AGR15B, AGR110B

Chemical Name **Mixture (BROWN Aluminum Oxide)**

Trade Name See Product Identifier

CAS No. 1344-28-1

1.2 Intended Use of the Product: Product component to create traction in no slip floor system

1.3 Details Of The Supplier Of The Safety Data Sheet

Company Identification	NewDimensions Solutions, LLC
Address	3960 Howard Hughes Parkway, Suite 500 Las Vegas, NV 89169
Telephone	(800) 731-2231
E-Mail (Competent Person)	sales@ndclean.com

1.4 Emergency Telephone Number **(702) 943-8861**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification Of The Substance Or Mixture

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

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351

Hazard Pictogram(s)  GHS08 Health hazard

Carc. 2 H351: Suspected of causing cancer.

The product is not classified as hazardous according to the CLP regulation.

2.1.2 Classification according to Directive 67/548/EEC & Directive 1999/45/EC – Not applicable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label Elements

2.2.1 Label Elements *According to Regulation (EC) No. 1272/2008 (CLP)*

The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H351.

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

Hazard Pictogram(s)  Not applicable within the EU; applicable only for North America.

Signal Word(s) **WARNING** Not applicable within the EU; applicable only for North America.

Hazard-determining components of labelling: titanium dioxide

Hazard Statement(s) The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351
H351: Suspected of causing cancer.

Precautionary Statement(s) Applicable only within the United States (USA)
P281: Use personal protective equipment as required.
P202: Do not handle until all safety precautions have been read and understood.
P308 + P313: IF exposed or concerned: Get medical advice/attention.

Hazard description:

WHMIS-symbols:

D2A – Very toxic material causing other toxic effects

NFPA ratings (scale 0 - 4)

Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *0
Fire = 0
Reactivity = 0

HMIS Long Term Health Hazard Substances

13463-67-7 titanium dioxide

2.3 Other Hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
CAS No. Description
1344-28-1 aluminum oxide
Dangerous Components:

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Titanium Dioxide	<1	13463-67-7	236-675-5	NA	 3.6/2 H351

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: Take affected persons out into the fresh air.

After Inhalation: Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Generally the product does not irritate the skin. Immediately rinse with water. If skin irritation continues, 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

Coughing, breathing difficulty.

Hazards

Danger of impaired breathing. Limited evidence of a carcinogenic effect.

4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed

If swallowed, gastric irrigation. If necessary oxygen respiration treatment.

SECTION 5: FIRE-FIGHTING MEASURES

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal Precautions, Protective Equipment And Emergency Procedures**	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid formation of dust.
6.2	**Environmental Precautions**	Damp down dust with water spray.
6.3	**Methods And Material For Containment And Cleaning Up**	Pick up mechanically. Dispose contaminated material as waste according to item 13.
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. Any unavoidable deposit of dust must be regularly removed. Prevent formation of dust. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
	Information About Fire – and explosion protection	No special measures required.
7.2	**Conditions For Safe Storage, Including Any Incompatibilities:**	
	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.
	Further information about storage conditions:	None.
7.3	**Specific End Use(s)**	No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

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
Titanium Dioxide	13463-67-7	PEL (USA)	Long-term value: 15* mg/m^3 *total dust
		REL (USA)	See Pocket Guide App. A
		TLV (USA)	Long-term value: 10 mg/m^3 withdrawn from NIC
		EL (Canada)	Long-term value: 10* 3** mg/m^3 *total dust; **respirable fraction; IARC 2B
		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:

8.2	**Exposure Controls**	
8.2.2	**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. 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.
	Respiratory Protection	Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present.
	**Eye Protection**	Wear safety glasses.
	**Protection of Hands**	Wear protective gloves.
	Body Protection	Not required under normal conditions of use.
	Risk Management Measures	No further relevant information available. See Section 7 for additional information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Powder	Color	According to product specification
Odor	Odorless	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	No Data	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)	Not available
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.

SECTION 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**	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**	No further relevant information available.
10.5	**Incompatible Materials**	No further relevant information available.
10.6	**Hazardous Decomposition Product(s)**	Toxic metal oxide smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

LD/LC50 values relevant for classification:		
13463-67-7 titanium dioxide		
Oral	LD50	> 20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6,82 mg/l (rat)

Primary Irritant Effect:	
On the skin:	Slight irritant effect on skin and mucous membranes.
On the eye:	Slight irritant effect on eyes.
Sensitisation:	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 (carcinogenity, mutagenicity, and toxicity for reproduction):	Based on IARC classifications and not the CLP classifications. Carcinogen 2B

SECTION 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	**Bioaccumulative Potential**	Does not accumulate in organisms.
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. On the basis of the necessary technical egulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.

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

(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

SECTION 15: REGULATORY INFORMATION

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

USA

SARA

Section 355 (extremely hazardous substances)	None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings)	1344-28-1 aluminum oxide	
TSCA (Toxic Substance Control Act)	All ingredients are listed.	
Proposition 65 (California):		
Chemicals known to cause cancer:	13463-67-7 titanium dioxide	
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)	13463-67-7 titanium dioxide 60676-86-0 silica, fused	2B 3
TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminium oxide 13463-67-7 titanium dioxide	A4 A4
MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide 13463-67-7 titanium dioxide	2 3A
NIOSH-Ca (National Institute for Occupational Safety and Health)	13463-67-7 titanium dioxide	

Canada

Canadian Domestic Substances List (DSL)	All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%	None of the ingredients are listed.
Canada Ingredient Disclosure list (limit 1%)	1344-28-1 aluminium oxide 60676-86-0 silica, fused

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.
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: 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
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 Abstract 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
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
Carc. 2: Carcinogenicity, Hazard Category 2