

# SAFETY DATA SHEET

# 1. Identification

Product identifier	GREENCAST-94 GR PLUS
Other means of identification	
Brand Code	5474, 304A, 388C
Recommended use	For Industrial Use Only For Industrial or Professional Use Only
Recommended restrictions	Avoid dry cutting, blasting, or dust generation.
Manufacturer/Importer/Supplier/I	Distributor information
Manufacturer	
Company name Address	HarbisonWalker International 1305 Cherrington Parkway, Suite 100 Moon Township Pennsylvania 15108 US
Telephone	General Phone: 412-375-6600
Website	www.thinkHWI.com
Emergency phone number	Not available.
Supplier	Not available.
2. Hazard identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Other hazards	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
ALPHA-ALUMINA		1344-28-1	70 - 90
Cement, Alumina, Chemicals		65997-16-2	20 - 40
Other components below report	able levels		0.1 - 2.5

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin and eyes.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
5. Fire-fighting measures		
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media	Not available.	
Specific hazards arising from the chemical	Not applicable.	
Special protective equipment and precautions for firefighters	Not available.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.	

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handlingMinimize dust generation and accumulation. Provide appropriate exhaust ventilation at places<br/>where dust is formed. Avoid prolonged exposure. Practice good housekeeping.Conditions for safe storage,<br/>including any incompatibilitiesStore in tightly closed container. Store in a well-ventilated place. Store away from incompatible<br/>materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Scl	hedule 1, Table 2)	
Components	Туре	Value	
ALPHA-ALUMINA (CAS	TWA	10 mg/m3	
1344-28-1)			
		s for Chemical Substances, (	Occupational Health and
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		s for Chemical Substances, ( Value	Occupational Health and Form
1344-28-1) Canada. British Columbia OELs. Safety Regulation 296/97, as ame Components ALPHA-ALUMINA (CAS 1344-28-1)	nded)		•
Canada. British Columbia OELs. Safety Regulation 296/97, as ame Components ALPHA-ALUMINA (CAS 1344-28-1)	nded) Type TWA	Value 1 mg/m3	Form
Canada. British Columbia OELs. Safety Regulation 296/97, as ame Components ALPHA-ALUMINA (CAS	nded) Type TWA	Value 1 mg/m3	Form

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (M Components	linistry of Labor - Regulation respectin Type	g occupational health and s Value	afety) Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.
Biological limit values	No biological exposure limits noted fo	or the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to maint exposure limits have not been establi engineering measures are not sufficie Occupational Exposure Limit (OEL), s ground, cut, or used in any operation ventilation to keep exposures below t	pplicable, use process enclose tain airborne levels below reco shed, maintain airborne levels ent to maintain concentrations suitable respiratory protection which may generate dusts, us	ures, local exhaust ventilation, ommended exposure limits. If to an acceptable level. If of dust particulates below the must be worn. If material is a appropriate local exhaust
Individual protection measure	s, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shields	s (or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant g	gloves.	
Other	Wear suitable protective clothing.		
Other Respiratory protection	Wear suitable protective clothing. Use a NIOSH/MSHA approved respir exceeding the exposure limits.	ator if there is a risk of exposu	ire to dust/fume at levels

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

#### Appearance

Physical state	Solid.
Form	Powder.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Explosive properties	Not explosive.	
Oxidizing properties	Not oxidizing.	
10. Stability and reactivity		
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	
Incompatible materials	Acids. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.	1
Hazardous decomposition products	No hazardous decomposition products are known.	
11. Toxicological informat	tion	
Information on likely routes of e		
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Dust or powder may irritate the skin.	
Eye contact	Dust may irritate the eyes.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and	Dusts may irritate the respiratory tract, skin and eyes.	
toxicological characteristics		
Information on toxicological effective Acute toxicity	Not known.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Skin conosion/mation Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	n	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
	5 5	
Carcinogenicity		
ACGIH Carcinogens		
ACGIH Carcinogens ALPHA-ALUMINA (CAS	1344-28-1) A4 Not classifiable as a human carcinogen.	
ACGIH Carcinogens ALPHA-ALUMINA (CAS Canada - Manitoba OELs: c	1344-28-1) A4 Not classifiable as a human carcinogen.   arcinogenicity	
ACGIH Carcinogens ALPHA-ALUMINA (CAS	1344-28-1) A4 Not classifiable as a human carcinogen.   arcinogenicity	

# Specific target organ toxicity - Not classified. single exposure

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

#### 13. Disposal considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Hazardous waste code	Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

#### 14. Transport information

#### TDG

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

potential, endocrine disruption, global warming potential) are expected from this component.

#### Controlled Drugs and Substances Act

Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed. Precursor Control Regulations Not regulated. International regulations Stockholm Convention Not applicable. Rotterdam Convention Not applicable. Kyoto protocol Not applicable. Montreal Protocol

Not applicable.

#### **Basel Convention**

Not applicable.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

Issue date	08-07-2019
Version #	01
Disclaimer	This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Revision information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients