

# SAFETY DATA SHEET

# 1. Identification

Product identifier	NOVUS CASTABLE
Other means of identification	
Brand Code	633A
Recommended use	For Industrial Use Only
Recommended restrictions	Avoid dry cutting, blasting, or dust generation.
Manufacturer/Importer/Supplier/	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	%
MAGNESIUM OXIDE		1309-48-4	50 - 70
CHROMIUM III COMPOUNDS		1308-31-2	30 - 50
Other components below reportal	ole levels		2.5 - 10

### 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. Coughing.
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 meas	sures
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.

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

waste disposal, see section 13 of the SDS.

materials (see Section 10 of the SDS).

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible

10 mg/m3

where dust is formed. Avoid prolonged exposure. Practice good housekeeping.

### 8. Exposure controls/personal protection

**Environmental precautions** 

7. Handling and storage Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

**Occupational exposure limits** 

US. ACGIH Threshold Limit Values Components	Туре	Value	Form
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Canada. Alberta OELs (Occupation	al Health & Safety Code, Sci	hedule 1, Table 2)	
Components	Туре	Value	Form
MAGNESIUM OXIDE (CAS	TWA	10 mg/m3	Fume.
1309-48-4)			
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		s for Chemical Substances, O	ccupational Health and
Canada. British Columbia OELs. (C		s for Chemical Substances, O Value	ccupational Health and Form
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen	ded)		
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amene Components CHROMIUM III COMPOUNDS (CAS	ded) Type	Value	Form

Inhalable fume.

Components		Туре	Value	Form
MAGNESIUM OXIDE (CAS 1309-48-4)		TWA	10 mg/m3	Inhalable fraction.
Canada. Ontario OELs. (Co Components	ontrol of Expos	sure to Biological or Chemic Type	cal Agents) Value	Form
CHROMIUM III COMPOUNDS (CAS 1308-31-2)		TWA	0.05 mg/m3	
MAGNESIUM OXIDE (CAS 1309-48-4)		TWA	10 mg/m3	Inhalable fraction.
Canada. Quebec OELs. (Mi Components	nistry of Labo	r - Regulation respecting of Type	ccupational health and sa Value	afety) Form
MAGNESIUM OXIDE (CAS 1309-48-4)		TWA	10 mg/m3	Fume.
Canada. Saskatchewan OE Components	Ls (Occupatio	nal Health and Safety Regu Type	lations, 1996, Table 21) Value	Form
CHROMIUM III COMPOUNDS (CAS 1308-31-2)		15 minute	1.5 mg/m3	
,		8 hour	0.5 mg/m3	
MAGNESIUM OXIDE (CAS 1309-48-4)		15 minute	20 mg/m3	Inhalable fraction.
		8 hour	10 mg/m3	Inhalable fraction.
logical limit values	No biologica	al exposure limits noted for the	e ingredient(s).	
osure guidelines				
Canada - British Columbia	OELs: Skin de	esignation		
CHROMIUM III COMPO	UNDS (CAS 1	308-31-2) Can be al	osorbed through the skin.	
oropriate engineering htrols	should be m or other eng exposure lin engineering Occupationa ground, cut,	al ventilation (typically 10 air of natched to conditions. If applic ineering controls to maintain hits have not been established measures are not sufficient to al Exposure Limit (OEL), suita or used in any operation whice b keep exposures below the re	able, use process enclosu airborne levels below reco d, maintain airborne levels o maintain concentrations ble respiratory protection r ch may generate dusts, use	res, local exhaust ventilation mmended exposure limits. to an acceptable level. If of dust particulates below th nust be worn. If material is e appropriate local exhaust
ividual protection measures Eye/face protection	-	glasses with side shields (or	goggles).	
Skin protection Hand protection	Wear appro	priate chemical resistant glove	es.	
Other	Wear suitab	le protective clothing.		
Respiratory protection		H/MSHA approved respirator ne exposure limits.	if there is a risk of exposu	re to dust/fume at levels
Thermal hazards	Wear appro	priate thermal protective cloth	ing, when necessary.	
neral hygiene		erve good personal hygiene m		

G considerations 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	Chlorine. Phosphorus. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
	No. In the second s

Hazardous decomposition products

# 11. Toxicological information

Information on likely routes of e	xposure
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 toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes. Coughing.

No hazardous decomposition products are known.

#### Information on toxicological effects

Acute toxicity	Not known.	
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	n	
ACGIH sensitization		
TRIVALENT CHROMIUM INORGANIC COMPOUN ORE PROCESSING, AS FRACTION (CAS 1308-3	DS, INCLUDING CHROMITE CR (III), INHALABLE	Dermal sensitization
Canada - Alberta OELs: Irrit	ant	Respiratory sensitization
CHROMIUM III COMPOL Canada - Manitoba OELs Ha		Irritant
CHROMIUM III COMPOU Canada - Manitoba OELs Ha	JNDS (CAS 1308-31-2) azard: Respiratory sensitizatio	Dermal sensitization
CHROMIUM III COMPOL		Respiratory sensitization
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected t	o cause skin sensitization.
Germ cell mutagenicity		product or any components present at greater than 0.1% are
Carcinogenicity		
ACGIH Carcinogens		
MAGNESIUM OXIDE (CA Canada - Manitoba OELs: ca		A4 Not classifiable as a human carcinogen.
MAGNESIUM OXIDE (C/ Canada - Quebec OELs: Ca	AS 1309-48-4)	Not classifiable as a human carcinogen.
CHROMIUM III COMPOL		Detected carcinogenic effect in humans.
IARC Monographs. Overall	Evaluation of Carcinogenicity	-
CHROMIUM III COMPOL		3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity		o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be	harmful.
12. Ecological information	ı	
Ecotoxicity		is environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the de	gradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects		tal effects (e.g. ozone depletion, photochemical ozone creation n, global warming potential) are expected from this component.
13. Disposal consideration	ns	
Disposal instructions	according to Federal regulation	ate, when discarded or disposed of, is not a hazardous waste ons (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the ne, at the time of disposal, whether the product meets RCRA criteria
Hazardous waste code		several industries, no Waste Code can be provided by the supplier. etermined in arrangement with your waste disposal partner or the
Waste from residues / unused products	Not available.	

### 14. Transport information

### TDG

Not regulated as dangerous goods.

#### ΙΑΤΑ

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

Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed. Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011) CHROMIUM III COMPOUNDS (CAS 1308-31-2) Precursor Control Regulations Not regulated. International regulations Stockholm Convention Not applicable. Kyoto protocol Not applicable. Kyoto protocol Not applicable. Basel Convention Not applicable. Basel Convention Not applicable. International Inventories
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Montreal Protocol Not applicable. Basel Convention Not applicable. International Inventories
Basel Convention Not applicable. International Inventories
International Inventories
Country(s) or region Inventory name On inventory (yes/no)*
Australia     Australian Inventory of Chemical Substances (AICS)     Yes
Canada Domestic Substances List (DSL) No
Canada Non-Domestic Substances List (NDSL) No
China Inventory of Existing Chemical Substances in China (IECSC) No
European Inventory of Existing Commercial Chemical No Substances (EINECS)
Europe European List of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) No
Korea Existing Chemicals List (ECL) No
New Zealand New Zealand Inventory Yes
Philippines Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS)
Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

\*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	11-03-2021
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 and Company Identification Composition / Information on Ingredients: Ingredients Toxicological Information: Toxicological Data