

SAFETY DATA SHEET

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

1.1. Product identifier		
Trade name or designation of the mixture	SHAMROCK 394 DRY MORTAR	
Registration number	-	
Synonyms	None.	
Brand Code	720B	
Issue date	20-July-2016	
Version number	01	
1.2. Relevant identified uses o	f the substance or mixture an	d uses advised against
Identified uses	For Industrial Use Only	
Uses advised against	None known.	
1.3. Details of the supplier of the safety data sheet		
Supplier		
Company name	HarbisonWalker International Li	mited
Address	Dock Road South	
	Bromborough	
	Wirral	
	UK	
Division	United Kingdom	
Telephone	General Phone:	44.(0)151.641.5900
e-mail	REACH@thinkhwi.com	
Contact person	HWI USA	
1.4. Emergency telephone number	CHEMTREC 24 HOUR EMERGENCY #	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classificatior applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

nazara Summary	
Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	For additional information on inhalation hazards, see Section 11 of this safety data sheet.
Main symptoms	Dusts may irritate the respiratory tract, skin and eyes.
2.2. Label elements	
Label according to Regulation	(EC) No. 1272/2008 as amended
Contains:	Aluminium Oxide (Non-Fibrous), Chromium (III) oxide
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.
Precautionary statements	
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.
Supplemental label information	None.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Chromium (III) oxide		70 - < 80	1308-38-9 215-160-9	-	-	
Classification:	DSD:	-				
	CLP:	-				
Aluminium Oxide (Non-	Fibrous)	20 - < 30	1344-28-1 215-691-6	01-2119529248-35-0134	-	
Classification:	DSD:	-				
	CLP:	-				

Other components below reportable levels 3 - < 5

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. M: M-factor vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance. #: This substance has been assigned Community workplace exposure limit(s).

SECTION 4: First aid measures General information Ensure that medical

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of 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.
4.2. Most important symptoms and effects, both acute and delayed	Dusts may irritate the respiratory tract, skin and eyes.
4.3. Indication of any immediate medical attention and special treatment	Treat symptomatically.

needed

SECTION 5: Firefighting measures

General fire hazards	Not available.
5.1. Extinguishing media Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
5.2. Special hazards arising from the substance or mixture	Not available.
5.3. Advice for firefighters Special protective equipment for firefighters	Not available.
Special fire fighting procedures	Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, prot	tective equipment and emergency procedures
For non-emergency personnel	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop the flow of material, if this is without risk. Collect dust using a vacuum cleaner equipped with HEPA filter.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
6.4. Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and	d storage
7.1. Precautions for safe	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places

7.1. Precautions for safe handling	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Expo Components	Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Chromium (III) oxide (CAS 1308-38-9)	TWA	0.5 mg/m3	
Biological limit values	No biological exposure limits noted	for the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedu	ires.	
Derived no-effect level (DNEL)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates shou be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.		
Individual protection measure	es, such as personal protective eq	uipment	
General information	Personal protection equipment shou with the supplier of the personal pro-		EN standards and in discussion
Eye/face protection	Wear safety glasses with side shield	ls (or goggles).	
Skin protection			
- Hand protection	Wear appropriate chemical resistant	talovos	

- Other Respiratory protection Wear suitable protective clothing.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Wear appropriate thermal protective clothing, when necessary.



Thermal hazards



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.

Environmental exposure controls

Hygiene measures

Appearance

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid. Powder.
Colour	Not available.
Odour	Not available.
Odour 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 ex	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.

10.5. Incompatible materials	Acids. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

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General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of	exposure
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	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.
11.1. Information on toxicolog	ical effects
Acute toxicity	No data available.
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
IARC Monographs. Overall	Evaluation of Carcinogenicity
Chromium (III) oxide (CA	S 1308-38-9) 3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity	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.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual wasteAs sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to
disposal. Dispose of waste product in accordance with Federal, State and Local regulations. The
chrome compounds (Cr III) in this product may be altered to a hexavalent compound (Cr VI) under
certain use conditions, such as exposure to alkali salts and/or high temperatures. Proper waste
testing (such as TCLP)must be done to determine the waste status of used product. Reuse and
recycling of chrome Refractories is recommended whenever possible.Contaminated packagingNot available.EU waste codeNot available.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBCCodeImage: Code state state

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I Not listed.

- Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.
- Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I Not listed.
- **Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1** Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Chromium (III) oxide (CAS 1308-38-9)
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

References

Disclaimer

Information on evaluation

R-phrases and H-statements under Sections 2 to 15 Revision information

method leading to the classification of mixture Full text of any statements or

Training information

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not listed. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not listed. Directive 94/33/EC on the protection of young people at work Not listed. Other regulations The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. National regulations Follow national regulation for work with chemical agents. 15.2. Chemical safety No Chemical Safety Assessment has been carried out. assessment **SECTION 16: Other information** List of abbreviations Not available.

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

Not available.

Not available.

Not available.

contractual relationship.

None

None.