International

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

Registration number

Synonyms None. **Brand Code** 8520

24-October-2017 **Issue date**

Version number 01

1.2. Relevant identified uses of the substance or mixture and uses advised against

ZIRMUL 362 MORTAR

Identified uses For Industrial Use Only

Uses advised against Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations. Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

1.3. Details of the supplier of the safety data sheet

Supplier

HarbisonWalker International **Company name**

Address 1305 Cherrington Parkway, Suite 100

Moon Township, PA 15108, USA

United States

Division

Telephone General Phone: 412-375-6600

CHEMTREC EMERGENCY 1-800-424-9300

US/CAN ONLY

e-mail sds@thinkHWI.com

HWI USA Contact person 1.4. Emergency telephone Not available.

number

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 classificatio

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 Not available.

2.2. Label elements

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

Hazard pictograms None. Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Not available. Response Not available. Not available. Storage **Disposal** Not available.

Material name: ZIRMUL 362 MORTAR SDS SPAIN Supplemental label information

Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

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
Aluminium Oxide (Non-Fibrous)	40 - 60	1344-28-1	-	-	
		215-691-6			
Classification: -					

Other components below reportable levels 40 - 60

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

Inhalation Not available Skin contact Not available. Not available. **Eye contact** Not available. Ingestion

4.2. Most important Exposure may cause temporary irritation, redness, or discomfort.

symptoms and effects, both

acute and delayed

4.3. Indication of any

Not available.

immediate medical attention and special treatment

needed

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

Use fire-extinguishing media appropriate for surrounding materials.

media

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

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Not available.

For emergency responders

Not available.

6.2. Environmental

Not available.

precautions

Following product recovery, flush area with water.

6.3. Methods and material for containment and cleaning up

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6.4. Reference to other

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Do not breathe dust.

7.2. Conditions for safe storage, including any

incompatibilities

Not available.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Spain. Occupational Exposure Limits

Components	Туре	Value
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	10 mg/m3
Zircon (CAS 14940-68-2)	STEL TWA	10 mg/m3 5 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Zirconium silicates (zircon sands) contain trace amounts (106-120 pCi/q) of naturally occurring radioactive uranium and thorium. Overexposure by inhalation to respirable dust containing uranium and thorium may cause lung cancer. Eye contact with the dust may cause eye irritation. Measurements made by Dupont during the use of a similar mineral sand indicated the observance of the 5 mg/m3 OSHA PEL for respirable dust and/or the PEL for quartz ensures the user is below the exposure limits established for uranium and thorium. No LD50 or LC50 can be found for zircon

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should

be monitored and controlled.

8.2. Exposure controls

Appropriate engineering

controls

Not available.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

Eye/face protection

Skin protection

Not available.

- Hand protection Not available. - Other Not available.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards Not available. **Hygiene measures** Not available. Not available. **Environmental exposure**

controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid. **Form** Solid. Colour Not available. Odour Not available.

Material name: ZIRMUL 362 MORTAR SDS SPAIN Odour thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point andNot available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

ver Not available.

(%)

Flammability limit -

upper (%)

Not available.

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water)Not available.Solubility (other)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot available.Oxidising propertiesNot available.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.
 10.2. Chemical stability Not available.
 10.3. Possibility of hazardous Not available.

reactions

10.4. Conditions to avoid Contact with incompatible materials.

Not available.

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

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure
Inhalation Not available.

Skin contact Not available.

Eye contact Not available.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/eye

Not available.

Not available.

irritation

Respiratory sensitisationNot available.Skin sensitisationNot available.Germ cell mutagenicityNot available.

Material name: ZIRMUL 362 MORTAR SDS SPAIN

Carcinogenicity Due to partial or complete lack of data the classification is not possible

Reproductive toxicity

Specific target organ toxicity

Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

Not available. **Aspiration hazard** Mixture versus substance

information

Not available.

Other information This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

Partition coefficient

Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information 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. Collect and reclaim or dispose in sealed containers at licensed waste disposal

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

SECTION 15: Regulatory information

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

Material name: ZIRMUL 362 MORTAR

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 (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed

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.

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

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

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLF

Regulation) as amended.

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 abbreviationsNot available. **References**Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculatior methods and test data, if available.

Full text of any H-statements not written out in full under

None.

Sections 2 to 15

Revision information None.

Training information Follow training instructions when handling this material.

Disclaimer This information is based on our present knowledge on

This information is based on our present knowledge on creation date. However, this shall no constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. HarbisonWalker International cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Material name: ZIRMUL 362 MORTAR