International

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or TZ 702 DRY MORTAR

designation of the mixture

Registration number

Synonyms None **Brand Code** 9477

Issue date 04-May-2022

Version number 01

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

Identified uses For Industrial or Professional Use Only

Uses advised against Avoid dry cutting, blasting, or dust generation. 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

Company name HarbisonWalker International

Address 1305 Cherrington Parkway, Suite 100

Moon Township, PA 15108, USA

United States

Division

Telephone General Phone: 412-375-6743

CHEMTREC EMERGENCY 1-800-424-9300

US/CAN ONLY

sds@thinkHWI.com e-mail

Contact person HWI USA

1.4. Emergency telephone General Phone:

number

412-375-6600

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 classification applies.

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 Prolonged exposure may cause chronic effects. Not classified for health hazards. However,

occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements

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

Contains: Boric acid **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.

Wash hands after handling. Response

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 Not a PBT or vPvB substance or mixture.

Material name: TZ 702 DRY MORTAR SDS FU

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Boric acid	< 0,5	10043-35-3 233-139-2	-	005-007-00-2	
Classification: -					

Other components below reportable 80 - 100

List of abbreviations and symbols that may be used above

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Not available.

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.

Exposure may cause temporary irritation, redness, or discomfort.

Eye contact 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

4.3. Indication of any immediate medical attention

and special treatment

needed

Treat symptomatically.

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, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental

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

precautions 6.3. Methods and material for containment and cleaning up

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

6.4. Reference to other

sections

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

Material name: TZ 702 DRY MORTAR

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. 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

Components	Туре	Value	Form
Zircon (CAS 14940-68-2)	MAK	5 mg/m3	Inhalable fraction.
Belgium. Exposure Limit Values.			
Components	Туре	Value	
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	
	TWA	2 mg/m3	
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Croatia. Dangerous Substance Ex 13/09	oosure Limit Values in the	Workplace (ELVs), Annexes	1 and 2, Narodne Novi
Components	Туре	Value	
Zircon (CAS 14940-68-2)	MAC	5 mg/m3	
	STEL	10 mg/m3	
Cyprus. OELs. Control of factory a	tmosphere and dangerous	substances in factories reg	ulation, PI 311/73, as
amended.	-	_	•
Components	Туре	Value	
Zircon (CAS 14940-68-2)	TWA	5 mg/m3	
Denmark. Exposure Limit Values Components	Туре	Value	
Zircon (CAS 14940-68-2)	TLV	5 mg/m3	
Finland. Workplace Exposure Limi	ts		
Components	Туре	Value	
Boric acid (CAS 10043-35-3)	TWA	0,5 mg/m3	
Zircon (CAS 14940-68-2)	TWA	1 mg/m3	
		Investigation of Health Ha	azards of Chemical
Germany. DFG MAK List (advisory Compounds in the Work Area (DF			
Compounds in the Work Area (DF		Value	Form
	G)	_	
Compounds in the Work Area (DF Components Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values	Type TWA in the Ambient Air at the V	Value 10 mg/m3 Vorkplace	Form Inhalable fraction.
Compounds in the Work Area (DF Components Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values	Type TWA	Value 10 mg/m3	Form
Compounds in the Work Area (DFCComponents Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values Components Boric acid (CAS 10043-35-3)	Type TWA in the Ambient Air at the V Type AGW	Value 10 mg/m3 Vorkplace Value 0,5 mg/m3	Form Inhalable fraction.
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Compounds in the Work Area (DFCComponents Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values Components Boric acid (CAS 10043-35-3)	Type TWA in the Ambient Air at the V Type AGW AGW	Value 10 mg/m3 Vorkplace Value 0,5 mg/m3	Form Inhalable fraction. Form Inhalable fraction.
Compounds in the Work Area (DFCComponents Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values Components Boric acid (CAS 10043-35-3) Zircon (CAS 14940-68-2) Greece. OELs (Decree No. 90/199 Components	Type TWA in the Ambient Air at the V Type AGW AGW 9, as amended)	Value 10 mg/m3 Vorkplace Value 0,5 mg/m3 1 mg/m3	Form Inhalable fraction. Form Inhalable fraction.
Compounds in the Work Area (DFCComponents Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values Components Boric acid (CAS 10043-35-3) Zircon (CAS 14940-68-2) Greece. OELs (Decree No. 90/199	Type TWA in the Ambient Air at the V Type AGW AGW 9, as amended) Type	Value 10 mg/m3 Vorkplace Value 0,5 mg/m3 1 mg/m3 Value	Form Inhalable fraction. Form Inhalable fraction.
Compounds in the Work Area (DFCComponents Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values Components Boric acid (CAS 10043-35-3) Zircon (CAS 14940-68-2) Greece. OELs (Decree No. 90/199 Components	Type TWA in the Ambient Air at the V Type AGW AGW 9, as amended) Type STEL TWA	Value 10 mg/m3 Vorkplace Value 0,5 mg/m3 1 mg/m3 Value 10 mg/m3 5 mg/m3	Form Inhalable fraction. Form Inhalable fraction.
Compounds in the Work Area (DFC Components Boric acid (CAS 10043-35-3) Germany. TRGS 900, Limit Values Components Boric acid (CAS 10043-35-3) Zircon (CAS 14940-68-2) Greece. OELs (Decree No. 90/199 Components Zircon (CAS 14940-68-2) Hungary. OELs. Joint Decree on C	Type TWA in the Ambient Air at the V Type AGW AGW 9, as amended) Type STEL TWA hemical Safety of Workplace	Value 10 mg/m3 Vorkplace Value 0,5 mg/m3 1 mg/m3 Value 10 mg/m3 5 mg/m3	Form Inhalable fraction. Form Inhalable fraction.

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Components Vivoen (CAS 14040 CS 2)	Type	Value	
Zircon (CAS 14940-68-2)	TWA	5 mg/m3	
Ireland. Occupational Exposure Limits Components	Туре	Value	
Boric acid (CAS 10043-35-3)	TWA	2 mg/m3	
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Italy. Occupational Exposure Limits			
Components	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Latvia. OELs. Occupational exposure lin Components	nit values of chemical substa Type	nces in work environ Value	ment
Boric acid (CAS 10043-35-3)	TWA	10 mg/m3	
Lithuania. OELs. Limit Values for Chem			
Components	Type	Value	
Boric acid (CAS 10043-35-3)	TWA	10 mg/m3	
Zircon (CAS 14940-68-2)	TWA	6 mg/m3	
Norway. Administrative Norms for Cont Components	taminants in the Workplace Type	Value	
Zircon (CAS 14940-68-2)	TLV	5 mg/m3	
and intensities of harmful health factor			
and intensities of harmful health factor Components	rs in the work environment, J	ournal of Laws 2014,	
and intensities of harmful health factor Components	rs in the work environment, J Type	ournal of Laws 2014, Value	
and intensities of harmful health factor Components Zircon (CAS 14940-68-2) Portugal. VLEs. Norm on occupational 6	rs in the work environment, J Type STEL TWA exposure to chemical agents (ournal of Laws 2014, Value 10 mg/m3 5 mg/m3 (NP 1796)	
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Components	Туре	Value	
	TWA	2 mg/m3	
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Switzerland. SUVA Grenzw	verte am Arbeitsplatz		
Components	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	1,8 mg/m3	Inhalable fraction.
	TWA	1,8 mg/m3	Inhalable fraction.
Zircon (CAS 14940-68-2)	TWA	5 mg/m3	Inhalable fraction.
UK. EH40 Workplace Expos	sure Limits (WELs)		
Components	Туре	Value	
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ogical limit values	No biological exposure limits noted f	for the ingredient(s).	

Bio

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Zirconium silicates (zircon sands) contain trace amounts (106-120 pCi/g) 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 sand.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should 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.

Individual protection measures, such as personal protective equipment

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

with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear suitable protective clothing.

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 Wear appropriate thermal protective clothing, when necessary.







Hygiene measures

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

Environmental manager must be informed of all major releases.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical stateSolid.FormSolid.

Colour Not available.

Odour Not available.

Odour threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and Not available.

boiling range

Flash point

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

er Not available.

(%)

Flammability limit -

upper (%)

Not available.

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

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

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

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. ReactivityThe 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 Strong oxidising agents.

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

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contactNo adverse effects due to skin contact are expected. **Eye contact**Direct contact with eyes may cause temporary irritation.

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

Material name: TZ 702 DRY MORTAR

SDS EU

Acute toxicity Not known.

Components Species Test Results

Boric acid (CAS 10043-35-3)

Acute Inhalation

LC50 Rat > 0,002 mg/l, 4 Hours

Skin corrosion/irritation Serious eye damage/eye

irritation

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

Respiratory sensitisation Skin sensitisation Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in guarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

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
Mixture versus substance

information

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

No information available.

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

SECTION 12: Ecological information

12.1. ToxicityBased on available data, the classification criteria are not met for hazardous to the aguatic

environment.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative

potential

Partition coefficient

Not available.

n-octanol/water (log Kow)
Bioconcentration factor (BCF)

Not available.

No data available.

No data available.

12.4. Mobility in soil
12.5. Results of PBT and

No data available

vPvB assessment

Not a PBT or vPvB substance or mixture. 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

Material name: TZ 702 DRY MORTAR

Residual waste Not available.

Contaminated packaging Not available. **EU** waste code Not available.

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

Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

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

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

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Boric acid (CAS 10043-35-3)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Boric acid (CAS 10043-35-3)

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

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 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

National regulations Follow national regulation on the protection of workers from the risks of exposure to carcinogens

and mutagens at work, in accordance with Directive 2004/37/EC.

Material name: TZ 702 DRY MORTAR

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available. References Not available. Information on evaluation

method leading to the classification of mixture Not available.

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

None.

Sections 2 to 15

Revision information Product and Company Identification: Product and Company Identification

Training information Not available.

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.

Material name: TZ 702 DRY MORTAR

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