

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFICATION

Supershield Flexi A

1.2 RECOMMENDEDUSE

Waterproofing and protection of concrete

1.3 COMPANY DETAILS

SupershieldPrivateLimited

No37,3rdmainroad,R.A.Puram,Chennai-600028,India.

Email: contact@supershieldglobal.com

Website: www.supershieldglobal.com

1.4 EMERGENCYTELEPHONE

1-800-425-5505 - In times of unavailability, contact your local emergency services.

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

REGULATION (EC) No 1272/2008

2.1.1 Classification in accordance with GHS

Skin Irritation. 2: H315 Causes skin irritation.

Eye Damage. 1: H318 Causes serious eye damage.

SkinSensitization.1:H317Maycauseanallergicskinreaction.

STOTSE3:H335Maycauserespiratoryirritation.

STOT RE 2: H373 May cause damage to respiratory organs through prolonged or repeated exposure.

2.2 LABELELEMENTS



Signal Word: Danger

2.3 HAZARD STATEMENTS

H315 - Causes skin irritation

H317-Maycauseanallergicskinreaction

H318-Causesseriouseyedamage

H335 - May cause respiratory irritation

H373 - May cause damage to respiratory organs through prolonged or repeated exposure



2.4 PRECAUTIONARY STATEMENTS

P260 - Do not breathe dust

P264 - Wash thoroughly after handling

P280 - Wear protective gloves /clothing / eye protection/ face protection & approved duct masks

P260Donotbreathedust

P264 Wash thoroughly after handling

P280 Wear protective gloves / protective clothing / eye protection / face protection

P304 + P340 IFINHALED-Remove victim to freshair and keep at restination comfortable

forbreathing

P305+P351+P338IFINEYES-Rinsecautiouslywithwaterforseveralminutes

Removecontactlenses, if present and easy to do. Continuer in sing

P310 Immediately call a POISON CENTRE or doctor / physician

P102 - Keep out of reach of children

P312 - Call a POISON CENTER or doctor if you feel unwell

3. COMPOSITION/INFORMATIONONINGREDIENTS

Hazardous Ingredients	%	CAS. No.	Classification According to GHS
Portland Cement	35 - 60%	65997-15-1	Skin Irrit. 2: H315 Skin Sens. 1: H317 Eye Dam. 1: H318 STOT SE 3: H335
Silica Sand (< 0.005 % (w/w) 10µm respirable silica)	30 - 40%	14808-60-7	STOT RE 2: H373

4. FIRSTAIDMEASURES

4.1 DESCRIPTIONOFFIRSTAIDMEASURES

When seeking medical advice show this safety data sheet to the doctor in attendance.

EYECONTACT: Quickly and gently blotaway any drypowder. Flush cautiously with large amounts of water for at least 30 minutes. Remove any contact lenses, and continuer in sing. Do not rube ye sast his may cause addition irritation or damage. Call for professional medical attention if irritation persists.





SKIN CONTACT: Wash off immediately with soap and plenty of water, remove contaminated clothing, shoes and leather goods. If skinir ritation or rashoccurs, seek medical advice/attention.

INGESTION: Wash out inside of the mouth with clean water. Do not induce vomiting. If vomiting occursnaturally, have victimle an forward to reduce risk of a spiration. Seek immediate professional medical assistance and contact a poison center.

INHALATION: Movevictimtofreshairandkeepatrestinaposition comfortable for breathing. Dust in throat and nasal passages should clear spontaneously. Seek immediate professional medical attention.

4.2 MOSTIMPORTANTSYMPTOMSANDEFFECTS,BOTHACUTEANDDELAYED

ACUTE: Irritation to skin and mucous membranes.

DELAYED: Precautions should be taken to ensure that dust is not inhaled; however, long-term exposure to high levels of dust may result in damage to the lungs.

5. FIREFIGHTINGMEASURES

5.1 EXTINGUISHINGMEDIA

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment, the product itself does not burn, Use water spray, fog, Carbon dioxide (CO 2), foam or dry chemical.

5.2 SPECIALHAZARDSARISINGFROMTHESUBSTANCEORMIXTURE

Nohazardouscombustionproducts. Alkalineearth compounds will cause explosive decomposition of maleic anhydride, nitroalkanes and nitroparaffins, in the presence of water, form salts with inorganic salts and within organic salts are explosive.

5.3 ADVICE FORFIREFIGHTERS

Wear self-contained breathing apparatus and no need for specialist protective equipment for firefighters. Prior to using the product liaise with local fire authority for confirmation of best and most current form of firefighting equipment for the product.

6. ACCIDENTAL RELEASEMEASURES

6.1 PERSONAL PROTECTIVEPRECAUTIONS

Use full protective equipment as referred to under Section 8.2.2 to prevent any contamination of skin, eyes, respiratory system and personal clothing. Ensure have a dequate measures are in place to prevent airborned ust.

6.2 ENVIRONMENT PROTECTION PRECAUTIONS

Prevententryintodrains, watercourses, seweror confined areas. Any spillages intowater courses must be alerted to the appropriate regulatory body.



6.3 METHODSFORCLEANINGUP

Duringcleanupavoidinhalationofproductandcontactwithskinandeyes. Takeupmechanically and collect in suitable containers for disposal. Wear full personal protective equipment when cleaningup, whatevermethodischosen. When the productisina drystate, avoidair bornedust generation when cleaningup. Cleanup promptly by sweeping, vacuum or mopping to avoid the dust becoming air borne.

If the product has become wet, clean up and place in water tight container. Allow material to dry and solidify before disposal. Check current regulations before disposing of spillage, whether indry state or not.

7. HANDLING ANDSTORAGE

7.1 HANDLING

Avoid all types of dust generation; particularly the creation of respirable dust. At all times avoid inhalation of product and contact with skin and eyes. Use handling equipment and controls if necessarytoavoidinjury.lfindoubt,contactyourlocalhealthandsafetybodyforfurtherguidance on annual handling. Always wear sufficient and full protective equipment and suitable clothing whenhandlingtheproduct.

Ensureadequateventilationandhaveventilationequipmentavailableifrequiredduetopossibility ofgenerationofairbornedust.

Donoteat, drinkors moke when handling or applying product. Remove contaminated clothing and protective equipment before entering eating areas.

Avoid mishandling of pails or bags so as to prevent accidental bursting and creation of dust.

7.2 STORAGE

P402 + P232 + 233 Store in a dry place. Protect from moisture. Keep container tightly closed.

The product should be used within 12 months of the date of production; product should not have been exposed to the atmosphere prior to use.

Anyproductthatisstackedshouldbedonesoinastablemanner, and to asafeheight, so that it does not create any risk of productfalling and accidentally bursting the packaging open.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Table 8 - Exposure Controls/ Personal Protection						
Substance	CAS No	Regulatory Limits	Recommended Limits			
		OSHA PEL	NIOSH REL (as of 4/26/13)	ACGIH 2015 TLV		
Portland cement	65997-15-1					
Total dust		15 mg/m3	10 mg/m3			
Respirable fraction		5 mg/m3	5 mg/m3	1 mg/m (no asbestos and < 1% crystalline silica)		
Silica Sand	14808-60-7			0.025 (resp.) for aquartz and cristobalite mg/m3		
Quartz (Respirable)		250(h) (%SiO2+5)	0.1 mg/m3	Ca 0.05 mg/m3		
Quartz (Total Dust)		30 mg/m (%SiO2+2)				

Please refer to OSHA website for additional information. Please note that the % of respirable crystalline silica in the silica s and is<0.005% but some processes and uses may increase this fraction.

8.2 EXPOSURECONTROLS

8.2.1 Appropriate EngineeringMeasures

Ensureadequate and suitable ventilation/ventilation equipment when handlingproduct, especially in confined areas. All ventilation systems should be filtered before discharge to atmosphere.

Isolate personnel from dusty areas.

Do not eat, drink or smoke when working with the product to avoid contact with skin or mouth. Remove contaminated clothing, footwear, etc. and clean thoroughly before reusing.



8.2.2 Personal Protection Equipment

P264 - Wash hands thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

P280-Wear protective gloves/protective clothing/eye protection/face protection

Skin Protection – Use impervious, abrasion resistant gloves, enclosed rubber boots that resist powder and liquid penetration, closed long-sleeve dimpervious protective clothing that protects skin from contact.

EyeProtection—Weartightly fitting safety goggle satall times when handling and processing the product. Ensure the goggles/glasses have suitable side protection, are wide vision, and that there is norisk of product particles being able to enter the eye(s).

Respiratory Protection – Inhalation of product dust must be avoide datall times. Use an effective dust mask. Respiratory protective equipment must be in compliance with relevant national legislation.

8.2.3 Environmental Exposure Controls

Prevent product from entry drains and limit dust dispersion into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PhysicalState Solid

Color&Appearance Greypowder

Odour None pH 10 -13

Melting/FreezingPoint

Not applicable

Initial Boiling Point and Range Not applicable

Flash Point Not applicable

Evaporation Rate

Not applicable

Flammability Upper/Lower

Not applicable

Vapour Pressure Not applicable
Vapour Density Not applicable

Solubility

Powder forms slurry with water, hardensover time

Auto-ignition Temperature Not applicable

Decomposition Temperature

Alkaline earth compounds:580°C





Viscosity Notapplicable
ExplosiveProperties Notapplicable
OxidizingProperties Notapplicable
SpecificGravity 2.8 -3.0

10. STABILITY ANDREACTIVITY

10.1 REACTIVITY

Alkalineearthcompoundsreactvigorouslywithstrongacids. They also attack aluminum, lead and brass in the presence of moisture.

10.2 CHEMICALSTABILITY

The product is chemically stable. When mixed with water it will harden, with time, into a stable mass.

10.3 POSSIBILITYOFHAZARDOUSREACTIONS

Alkaline earth compounds will cause explosive decomposition of maleic anhydride,nitroalkanes andnitroparaffins,inthepresenceofwater,formsaltswithinorganicsaltsandwithinorganicbases. The dry salts are explosive. Alkaline earth compound is stable up to 580°C. Alkaline earth compoundsdecomposewithlossofwateratapproximately580°CtoformCalciumOxide.

10.4 CONDITIONS TOAVOID

Avoid humid and drafty environments during storage. Also avoid storage temperatures below 7°C.

10.5 INCOMPATIBLEMATERIALS

Products are incompatible with strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No information available.



11. TOXICOLOGICALINFORMATION

11.1 INFORMATION ON TOXICOLOGICALEFFECTS

Acute Oral Toxicity: May cause irritation to the gastrointestinal tract.

AcuteInhalationToxicity:Theproductmayirritatethethroatandrespiratorytract.Inhalationmay to irritation, inflammation or burns. Coughing, sneezing and shortness of breath may occur followingexposuresinexcessofoccupationalexposurelimits.

SkinCorrosion/Irritation:Whenskinisexposedtotheproductinitsdryorwetstate,thickening, cracking or fissuring of the skin may occur. Prolonged contact in combination with abrasion can cause severe burns. Portland cement and alkaline earth compound are an irritant to skin. This mixturecontains<2ppmChromium(VI),whichisaskinirritant.

Serious Eye Damage / Irritation: Direct contact with product may cause corneal damage by mechanicalstress,immediateordelayedirritationorinflammation.Directcontacteitherindryor wetformmaycauseeffectsrangingfrommoderateeyeirritation(eg.conjunctivitisorblepharitis)to chemicalburnsorblindness.

Skin Sensitization: This product contains Portland cement which is classified as a skin sensitizer.

Germ Cell Mutagnicity: With the exception of Chromium (VI) (< 2 ppm) in the Portland cement, none of the individual substances in this mixture are classified as mutagenic.

Carcinogenicity: This product contains silica sand and this form of silica is not classified as carcinogenic due to its large particle size. However, prolonged and / or massive exposure to respirable silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of silica.

Reproductive Toxicity: None of the individual substances in this mixture are classified as reproductivetoxicants.

Specific Target Organ Toxicity - Single Exposure: Inhalation of dust can result in damage to the respiratory tract.

SpecificTargetOrganToxicity-RepeatExposure:Prolongedorrepeatedinhalationexposuremay causedamagetothelungs,includingchronicobstructivepulmonarydisease(COPD).



11.2 ASPIRATIONHAZARD

No data available.

11.3 LIKELYROUTESOFEXPOSURE

Inhalation:YES Skin – Eyes: YES

Ingestion: NO - except in accidental cases

11.4 POTENTIALHEALTHEFFECTS

Theproductmayirritateandburnthethroatandrespiratorytract. Coughing, sneezing and shortness of breathmayoccurfollowing exposuresinexcess of occupational exposure limits. Causes skin irritationand is a severe eyeirritant.

Chronicexposuretorespirabledustinexcessofoccupationalexposurelimitsmaycausecoughing, shortnessofbreathandmaycausechronicobstructivelungdisease(COPD).

12. ECOLOGICALINFORMATION

12.1 ECOTOXICITY

Do not allow the material to enter water course. If water is contaminated inform the relevant authoritiesimmediately. The addition of a significant amount of cementitious products to water may cause a rise in the pH value and therefore may be to xicto a quatic life under certain circumstances.

12.2 PERSISTENCE ANDDEGRADABILITY

No information available.

12.3 BIOACCUMULATIVEPOTENTIAL

No information available.

12.4 MOBILITYINSOIL

No information available.

12.5 RESULTSOFPBTANDVPVBASSESSMENT

This mixture does not contain any substances that are assessed to be PBT or vPvB.



13. DISPOSALCONSIDERATIONS

13.1 WASTE TREATMENTMETHODS

Avoid creation of airborne and respirable dust when disposing of product.

Product—UnusedResidueorDrySpillage:Pickupdryandputincontainers.Markcontainerclearly. Incaseofdisposal,hardenwithwatertoavoiddustcreation.Disposeofatalicensedwastefacility acceptingcementitiousandalkalineearthbasedwaste.Disposeofallmaterialsinaccordancewith currentlocalregulations/legislation.

Product—Slurries: Allowtoharden. Avoidentry into sewage and drainage systems or into bodies of water and dispose of a sindicated for hardened product.

Product – After Addition of Water, Hardened: Dispose of at a licensed waste facility accepting cementitious and alkaline earth based waste. Dispose of all materials in accordance with current regulations/legislation. Avoidentry into sewage and drainage systems or into bodies of water.

13.2 PACKAGING

Completely empty packaging and process it according to current regulations / legislation.

14. TRANSPORTINFORMATION

The product is not classified as hazardous for transport purposes.

15. REGULATORYINFORMATION

GHS

WHMIS

OSHA

16. OTHER INFORMATION

HazardStatementsInFull

H315 Causes skin irritation.

H318Causesseriouseyedamage.

H317Maycauseanallergicskinreaction.

H335Maycauserespiratoryirritation.

H373 May cause damage to respiratory organs through prolonged or repeated exposure.



Precautionary Statements In Full

P260 Do not breathe dust.

P271 Use only outdoors or in a well-ventilated area.

P280Wearprotectivegloves/protectiveclothing/eyeprotection/faceprotection.

P272Contaminatedworkclothingshouldnotbeallowedoutoftheworkplace.

P264Washthoroughlyafterhandling

P305+P351+P338IFINEYES:Rinsecautiouslywithwaterforseveralminutes.

Remove contact lenses, if present and easy to do. Continuer in sing.

P310 Immediately call a POISON CENTRE or doctor / physician.

P304+P340IFINHALED:Removevictimtofreshairandkeepatrestinapositioncomfortablefor breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313lfskinirritationorrashoccurs:Getmedicaladvice/attention.

P362Takeoffcontaminated clothing and wash before reuse.

P501 Dispose of contents / container to ...

P403+P233Storeinawell-ventilatedplace.Keepcontainertightlyclosed.

P405Storelockedup.

P314 Get medical advice / attention if you feel unwell.

P310 Immediately call a POISON CENTRE or doctor / physician

P102 - Keep out of reach of children

P312 - Call a POISON CENTER or doctor if you feel unwell

Disclaimer

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