



FLAG STONE FIX
STONE CARE EXPERTS



Material Safety Data Sheet(MSDS)

FS CRACK FILL WATERCLEAR

SECTION 1: IDENTIFICATION

1.1 GHS Product Identifier

Product name FS CRACK FILL WATERCLEAR

1.2 Other means of Identification

Clear liquid

1.3 Recommended use of the chemical and restrictions on use

Knife-grade surface and joint filler

1.4 Supplier's details

Name	Zyax Chem Pvt. Ltd.,
Address	Third Floor, Kamer Building, 38, Cawasji Patel Street, Fort, Mumbai, Maharashtra, 400001, India.
Contact	+91 87792 40420
Email	info@zyax.in
Website	www.flagstonefix.com

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation, Cat. 5
- Sensitization, respiratory, Cat. 1
- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 3
- Sensitization, skin, Cat. 1
- Specific target organ toxicity (repeated exposure), Cat. 1
- Toxic to reproduction, Cat. 2

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Zyax Chem PVT. LTD.

Third Floor, Kamer Building, 38, Cawasji Patel Street, Fort, Mumbai, Maharashtra, 400001, India.

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2.2 GHS label elements, including precautionary statements

Pictograms

Warning

Signal word

Danger

Hazard statement(s)

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H361	Suspected of damaging fertility or the unborn child [effect, route]
H372	Causes damage to organs [organs] through prolonged or repeated exposure [route]

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see ... on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to ...

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product contains the following components with other non-hazardous additions.

Hazardous components

1. PHTHALIC ANHYDRIDE

Concentration	0.001 - 1 % (weight)
EC no.	201-607-5
CAS no.	85-44-9
Index no.	607-009-00-4

- Acute toxicity, oral, Cat. 4
- Specific target organ toxicity (single exposure), Cat. 3
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 1
- Sensitization, respiratory, Cat. 1
- Sensitization, skin, Cat. 1

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

2. STYRENE

Concentration	25 - 45 % (weight)
EC no.	202-851-5
CAS no.	100-42-5
Index no.	601-026-00-0

- Flammable liquids, Cat. 3
- Toxic to reproduction, Cat. 2
- Acute toxicity, inhalation, Cat. 4
- Specific target organ toxicity (repeated exposure), Cat. 1
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

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H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H361d	
H372	Causes damage to organs [organs] through prolonged or repeated exposure [route]

SCLs/M-factors/ATEs

3. 2-Propanol, 1,1'-[(4-methylphenyl)imino]bis-

Concentration	0.001 - 1 % (weight)
EC no.	EC no. 254-075-1
CAS no.	CAS no. 38668-48-3

4. Ethyl acetate

Concentration	0.001 - 1 % (weight)
EC no.	205-500-4
CAS no.	141-78-6
Index no.	607-022-00-5

- Flammable liquids, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3
- Eye damage/irritation, Cat. 2A

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

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SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

General advice	Take affected person to open air. Position and transport stably in side position. In case of ingestion, poisoning symptoms may occur after several hours, therefore, keep under medical observation for at least 48 hours.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Personal protective equipment for first-aid responders Basic PPE	

4.2 Most important symptoms/effects, acute and delayed

Allergies and sickness

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Unconsciousness.

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Dry powder, sand or CO2. Do not use water.

5.2 Specific hazards arising from the chemical

Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide may be released.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation. Use respiratory devices in case of dust or aerosol formation.

6.3 Methods and materials for containment and cleaning up

Absorb with inert absorbent materials like sand, dolomite etc. Dispose contaminated material in accordance with local and national regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

1. Phthalic anhydride (CAS: 85-44-9)

PEL (Inhalation): 2 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 12 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 1 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
REL (Inhalation): 6 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov
TWA (Inhalation): 1 ppm; 6.1 mg/m³; Australia (AU/SWA)
Other advisory: Sen

2. Styrene (CAS: 100-42-5)

PEL (Inhalation): See Annotated Z-2 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): See Annotated Z-2 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): See Annotated Z-2 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
REL (Inhalation): See Annotated Z-2 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov
TWA (Inhalation): 50 ppm; 213 mg/m³; Australia (AU/SWA)
STEL (Inhalation): 100 ppm; 426 mg/m³; Australia (AU/SWA)

3. Ethyl acetate (CAS: 141-78-6)

PEL (Inhalation): 400 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 1400 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 400 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
REL (Inhalation): 400 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov
TWA (Inhalation): 200 ppm; 720 mg/m³; Australia (AU/SWA)
STEL (Inhalation): 400 ppm; 1440 mg/m³; Australia (AU/SWA)

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8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Avoid exposing eyes and face to product.

Skin protection

Wear basic PPE

Respiratory protection

Ensure sufficient ventilation. Wear personal breathing device in case of intense and prolonged exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

Physical state	Solid
Appearance	Thick paste of variable colors depending on requirement
Color	Varies depending on user requirement
Odor	Sweet, aromatic
Odor threshold	No data available.
pH	7-8
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	Product is not flammable
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	1.25-1.27
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	Product is not auto-igniting
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	Product is not explosive

Particle characteristics

No data available.

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

10.5 Incompatible materials

Incompatible materials

10.6 Hazardous decomposition products

Carbon monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

The ATE (gas inhalation) of the mixture is: 450000 ppmV

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

Causes eye irritation.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Based on available data, classification data are not met

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

May be harmful if swallowed and enters airways

SECTION 12: ECOLOGICAL INFORMATION

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Product disposal

Dispose in accordance with local and national regulations.

Packaging disposal

Dispose in accordance with local and national regulations.

Waste treatment

Treat waste in accordance with local and national regulations.

Sewage disposal

Do not dispose in sewage.

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SECTION 14: TRANSPORT INFORMATION

DOT (US)

UN Number: UN 3269
Class: 3 (F3) Flammable liquids
Packing Group: 3
Proper Shipping Name: Polyester resin kit
Reportable quantity (RQ): 5 L
Marine pollutant: No
Poison inhalation hazard: No

IMDG

UN Number: UN 3269
Class: 3 (F3) Flammable liquids
Packing Group: 3
EMS Number: F-E, S-D
Proper Shipping Name: Polyester resin kit

IATA

UN Number: UN 3269
Class: 3 (F3) Flammable liquids
Packing Group: 3
Proper Shipping Name: Polyester resin kit

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right to Know Components

Chemical name: Phthalic anhydride
CAS number: 85-44-9

New Jersey Right to Know Components

Common name: PHTHALIC ANHYDRIDE
CAS number: 85-44-9

Pennsylvania Right to Know Components

Chemical name: 1,3-Isobenzofurandione
CAS number: 85-44-9

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SECTION 15: REGULATORY INFORMATION

Canadian Domestic Substances List (DSL)

Chemical name: 1,3-Isobenzofurandione
CAS: 85-44-9

Massachusetts Right to Know Components

Chemical name: Styrene
CAS number: 100-42-5

New Jersey Right to Know Components

Common name: STYRENE MONOMER
CAS number: 100-42-5

Pennsylvania Right to Know Components

Chemical name: Benzene, ethenyl-
CAS number: 100-42-5

Canadian Domestic Substances List (DSL)

Chemical name: Benzene, ethenyl-
CAS: 100-42-5

California Prop. 65 components

Chemical name: STYRENE
CAS number: 100-42-5
22-04-2016 - Cancer

Canadian Domestic Substances List (DSL)

Chemical name: 2-Propanol, 1,1'-[(4-methylphenyl)imino]bis-
CAS: 38668-48-3

Massachusetts Right to Know Components

Chemical name: Ethyl acetate
CAS number: 141-78-6

New Jersey Right to Know Components

Common name: ETHYL ACETATE
CAS number: 141-78-6

Pennsylvania Right to Know Components

Chemical name: Acetic acid ethyl ester
CAS number: 141-78-6

Canadian Domestic Substances List (DSL)

Chemical name: Acetic acid ethyl ester
CAS: 141-78-6

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SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Email:

Date of issue:

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