



Flagstone Fix Mild Stone Cleaner Plus

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product name : Flagstone Fix Mild Stone Cleaner Plus
Product code :

1.2. Recommended Use Uses advised against

Flagstone Fix Mild Stone Cleaner Plus
Application of the substance / the mixture
Cleaning agent/ Cleaner

1.3. Details of the supplier of the safety data sheet

ZYAX Chem Pvt. Ltd.
3rd Floor, Kamer Building,
38 Cawasji Patel Street, Fort,
Mumbai - 400001, India.
Contact No: +91 8779240420
info@zyax.in - www.zyax.in

1.4. Emergency telephone number

Emergency number : +91 22 2757 3899

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation
(EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



Signal word
Hazard-determining components
of labelling:
Hazard statements
Precautionary statements

GHS07
Warning
Not applicable.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
P101 If medical advice is needed, have product container or label at hand.



FLAG STONE FIX
STONE CARE EXPERTS

Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Additional information:	Contains isoeugenol. May produce an allergic reaction.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties For information on endocrine disrupting properties see section 11.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures

Description	Mixture of substances listed below with nonhazardous additions.	
Dangerous components:		
CAS: 61790-44-1	fatty acids, tall-oil, potassium salts	10-20%
EINECS: 263-136-1	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 97-54-1	isoeugenol	<1%
EINECS: 202-590-7	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317	
Index number: 604-094-00-X	Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.01 %	
Regulation (EC) No 648/2004 on detergents / Labelling for contents		≥1 - <10%
soap		<1%
perfume		
Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information:	No special measures required.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Rinse with warm water.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
	Rinse out mouth and then drink plenty of water.
After swallowing:	If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders
Nausea

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.



FLAG STONE FIX
STONE CARE EXPERTS

Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing agents:	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents:	Water with full jet
5.2 Special hazards arising from the substance or mixture	Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Carbon monoxide (CO) In case of combustion exposition of carbon black
5.3 Advice for firefighters Protective equipment:	Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.
5.4 Additional information	Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:
Particular danger of slipping on leaked/spilled product.
Product forms slippery surface when combined with water.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- 6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
- 6.4 Reference to other sections No dangerous substances are released.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Information about fire - and explosion protection:	No special precautions are necessary if used correctly. No special measures required.
7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Information about storage in one common storage facility: Further information about storage conditions: Storage class:	Prevent any seepage into the ground. Store away from foodstuffs. Do not store together with oxidising and acidic materials. Protect from frost. 12
7.3 Specific end use(s)	No further relevant information available.



FLAG STONE FIX
STONE CARE EXPERTS

Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. The lists valid during the making were used as basis.

Additional information:

No further data; see section 7

8.2 Exposure controls

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat or drink while working.

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

Respiratory protection:

Not necessary if room is well-ventilated.

Hand protection

Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling: FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Alkaline resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Value for the permeation: Level 6, 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR
Camatril (KCL, Art_No. 730, 731, 732, 733)

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)

Not suitable are gloves made of the following materials:

Leather gloves
Strong material gloves

Eye/face protection: Goggles recommended during refilling

Body protection: Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Colour:	Yellow
Odour:	Specific type
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	100 °C
Flash point:	Not applicable.
pH at 20 °C	12-14
Viscosity:	Not determined.
Kinematic viscosity	
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Vapour pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of similarpurity)
Density and/or relative density	
Density at 20 °C:	1.02 g/cm ³

9.2 Other information

Appearance:	Clear colorless liquid
Form:	Important information on protection of health and environment, and on safety.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	0.2 %
Water:	74.6 %
Solids content:	10.1 %

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void



FLAG STONE FIX
STONE CARE EXPERTS

Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactive Hazard

Stable under recommended transport or storage conditions

10.2. Chemical stability

Thermal decomposition /conditions to be avoided: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Reacts with acids.

10.4. Conditions to avoid

Heat, flames and other sources of ignition No further relevant information available.

10.5. Hazardous Decomposition Products

Carbon monoxide (CO), Carbon dioxide (CO₂), peroxides

10.6. Hazardous decomposition products:

Nitrogen oxides (NO_x)

Carbon monoxide and carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met. Oral LD₅₀

LD/LC₅₀ values relevant for classification:

97-54-1 isoeugenol

Oral LD₅₀ 1,560 mg/kg (rat)

Dermal LD₅₀ 1,100 mg/kg (ATE)

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.



Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

11.2 Information on other hazards

Endocrine disrupting properties

118-58-1 benzyl salicylate

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

Do not allow product to reach ground water, water course or sewage system.

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation

Smaller quantities can be disposed of with household waste.

European waste catalogue

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 00 separately collected fractions (except 15 01)

20 01 29* detergents containing hazardous substances

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES

07 06 00 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

07 06 99 wastes not otherwise specified

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 02 plastic packaging

Uncleaned packaging:

Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Void

14.4 Packing group

ADR, ADN, IMDG, IATA

Void

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.



FLAG STONE FIX
STONE CARE EXPERTS

Flagstone Fix Mild Stone Cleaner Plus

Safety Data Sheet

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

UN "Model Regulation":

Void

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

VOC EU

0.6 g/l

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product