Safety Data Sheet
KERACOLOR SF□
Safety Data Sheet dated: 17/07/2018 - version 2
Date of first edition: 09/11/2017

1: Identification

Product identifier

Mixture identification:

Trade name: KERACOLOR SF□

Trade code: 904B100

Recommended use of the chemical and restrictions on use

Recommended use: Ready prepared cement mortar

Uses advised against: Data not available.

Supplier's details

Company: MAPEI MALAYSIA Sdn Bhd
Lot 754, Lengkok Emas 1,
Kawasan Perindustrian Nilai,
71800 Negeri Sembilan,
MALAYSIA
T. +606 799 8028 (Mon-Fri 8.30am to 5.30pm)
F. +606 799 8191
sicurezza@mapei.it
www.mapei.com.my

Emergency phone number

999

2: Hazard identification

Classification of the substance or mixture

Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words

Danger

Hazard statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Precautionary statements:

P261	Avoid breathing dust.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with applicable regulations.

Other hazards which do not result in a classification

No other hazards

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles.

3: Composition/information on ingredients

Substances

N.A.

Mixtures

Mixture identification: KERACOLOR SF□

Hazardous components within the meaning of the GHS regulation and related classification:

Quantity	Name	Ident. Numb.	Classification
25-50 %	Portland cement, Cr(VI) < 2 ppm	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318; STOT SE 3, H335
1-2.5 %	calcium formate	CAS:544-17-2 EC:208-863-7	Eye Dam. 1, H318

4: First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Special hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: ==

Oxidizing properties: N.A.

Special protective actions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8: Exposure controls/personal protection

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Portland cement, Cr(VI) < 2 ppm	ACGIH	--None--		1					(E,R), A4 - Pulm func, resp symptoms, asthma

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
calcium formate	544-17-2	1,5 mg/kg	Soil		
		13,4 mg/kg	Freshwater sediments		
		0,2 mg/l	Marine water		
		2 mg/l	Fresh Water		
		10 mg/l	Intermittent release		
		1,34 mg/kg	Marine water sediments		
		13,4 mg/kg	Freshwater sediments		
		2,21 mg/l	Microorganisms in sewage treatments		

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
calcium formate	544-17-2			23,9 mg/kg	Human Oral	Long Term, systemic effects	
		337 mg/m3		83,2 mg/m3	Human Inhalation	Long Term, systemic effects	

337 mg/m3	83,2 mg/m3	Human Inhalation	Short Term, systemic effects
4780 mg/kg	2390 mg/kg	Human Dermal	Short Term, systemic effects
4780 mg/kg	2390 mg/kg	Human Dermal	Long Term, systemic effects
16,7 mg/cm2	8,3 mg/kg	Human Dermal	Short Term, local effects
16,7 mg/cm2	8,3 mg/kg	Human Dermal	Long Term, local effects

Appropriate engineering controls: N.A.

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

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

9: Physical and chemical properties

Color: white

Appearance: Powder

Odour: slight, typical of cement

Odour threshold: N.A.

pH in water dispersion: 12.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Evaporation rate: N.A.

Flammability (Solid, Gas): N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: N.A.

Vapour density: N.A.

Relative density: N.A.

Solubility in water: partly soluble

Solubility in oil: Insoluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

10: Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11: Toxicological information

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

calcium formate	g) reproductive toxicity	NOAEL Oral Rat = 956 mg/kg

l) chronic toxicity	NOAEL Oral Rat = 3000 mg/kg
a) acute toxicity	LD50 Oral Rat = 2650 mg/kg
	LD50 Skin > 2000 mg/kg
	LC50 Inhalation Rat = 0,64 mg/l 4h

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity

b) skin corrosion/irritation

c) serious eye damage/irritation

d) respiratory or skin sensitisation

e) germ cell mutagenicity

f) carcinogenicity

g) reproductive toxicity

h) STOT-single exposure

i) STOT-repeated exposure

j) aspiration hazard

12: Ecological information

Toxicity

Adopt good working practices, so that the product is not released into the environment.
Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
1-2.5 %	calcium formate	CAS: 544-17-2 - EINECS: 208-863-7	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96
			a) Aquatic acute toxicity : EC50 DXE2H_001 > 1000 mg/L 3
			a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 48
			c) Bacteria toxicity : EC50 DXE2H_001 > 22,1 mg/L
			b) Aquatic chronic toxicity : NOEC Daphnia > 100 mg/L - 21 d
			b) Aquatic chronic toxicity : NOEC Algae > 500 mg/L
			a) Aquatic acute toxicity : EC50 Algae > 500 mg/L 72

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

No Components with evironmental hazard properties found.

13: Disposal considerations

Disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14: Transport information

Not classified as dangerous in the meaning of transport regulations.

UN number

N.A.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group, if applicable

Road and Rail (ADR-RID):

N.A.

ADR-Hazard identification number: NA

Air (IATA):

N.A.

Sea (IMDG):

N.A.

Environmental hazards

Marine pollutant: No

N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions for user

N.A.

15: Regulatory information

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

This Safety Data Sheet has been prepared according to P.U. (A) 310 - 2014 and the Industry Code of Practice on Chemicals Classification and Hazard Communication.

16: Other information

Date of preparation of the first SDS: 09/11/2017

Date of revision of this SDS: 17/07/2018

Key literature references and sources:

None

Key/legend to the abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

LTE: Long-term exposure.

STE: Short-term exposure.