

Safety Data Sheet

KERACOLOR FF FLEX

Safety Data Sheet dated: 22/6/2017 - version 2

Date of first edition: 3/5/2017



1. Identification

GHS Product identifier

Mixture identification:

Trade name: KERACOLOR FF FLEX

Trade code: 905N100

Recommended use of the chemical and restrictions on use

Recommended use: no data available

Uses advised against: no data available

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

2. Hazard identification



Classification of the Hazardous chemical

| | |
|---------------|--------------------------------------|
| Skin Irrit. 2 | Causes skin irritation. |
| Eye Dam. 1 | Causes serious eye damage. |
| Skin Sens. 1B | 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.B | Avoid breathing dust. |
| 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. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |

Other hazards which do not result in a classification

Other Hazards: No other hazards

This preparation contains cement. Cement gives a strong alkaline reaction with water and body fluids (e.g. sweat and eye fluids). It may cause irritation or burns.

3. Composition/information on ingredients**Substances**

no data available

Mixtures

Mixture identification: KERACOLOR FF FLEX

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

| Quantity | Name | Ident. Numb. | Classification |
|----------|--|--------------------------------|---|
| 25-50 % | free crystalline silica ($\varnothing > 10 \mu$) | CAS:14808-60-7 EC:238-878-4 | |
| 25-50 % | Portland cement, Cr(VI) < 2 ppm | CAS:65997-15-1 EC:266-043-4 | Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Dam. 1, H318; STOT SE 3, H335 |
| 1-2.5 % | calcium hydroxide | CAS:1305-62-0 EC:215-137-3 | Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335 |
| 1-2.5 % | titanium dioxide | CAS:13463-67-7 EC:236-675-5 | |

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 ophthalmologist 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.

Symptoms caused by exposure

Eye irritation
 Eye damages
 Skin Irritation
 Erythema

Medical attention and special treatment

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

5. Fire-fighting measures**Suitable extinguishing media**

- None in particular.
- Water.
- Carbon dioxide (CO₂).

Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: no data available
- Explosive properties: ==
- Oxidizing properties: no data available

Special protective equipment and precautions 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

Always keep in a well ventilated place.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring

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 |
|-----------------------------------|--|----------|---------|-----------------|---------------|------------------|----------------|-----------|---|
| free crystalline silica (Ø >10 µ) | ACGIH | --None-- | | 0,025 | | | | | (R), A2 - Pulm fibrosis, lung cancer |
| | OSHA | | | 1 | | | | | |
| | OSHA | | | 15 | | | | | |
| | OSHA | | | 5 | | | | | |
| | Australia - Occupational Exposure Standards - TWAs | | | 10 | | | | | |
| Portland cement, Cr(VI) < 2 ppm | ACGIH | | | 1 | | | | | A4, (E,R) - Pulm func, resp symptoms, asthma |
| | OSHA | | | 15 | | | | | |
| | OSHA | | | 5 | | | | | |
| | Australia - Occupational Exposure Standards - TWAs | | | 10 | | | | | |
| | ACGIH | | | 1 | | | | | |
| calcium hydroxide | ACGIH | --None-- | | 5 | | | | | A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma; Eye, URT and skin irr |
| | OSHA | | | 15 | | | | | |
| | OSHA | | | 5 | | | | | |
| | Australia - Occupational Exposure Standards - TWAs | | | 5 | | | | | |
| | ACGIH | | | 5 | | | | | |
| titanium dioxide | ACGIH | --None-- | | 10 | | | | | eye, skin and upper respiratory tract irritation; A4 - LRT irr |
| | OSHA | | | 15 | | | | | |
| | ACGIH | | | 10 | | | | | |
| | Australia - Occupational | | | 10 | | | | | |

Predicted No Effect Concentration (PNEC) values

| Component | CAS-No. | PNEC LIMIT | Exposure Route | Exposure Frequency | Remark |
|-------------------|------------|-------------|-------------------------------------|--------------------|--------|
| calcium hydroxide | 1305-62-0 | 0,49 mg/l | Fresh Water | | |
| | | 1080 mg/kg | Soil | | |
| | | 0,32 mg/l | Marine water | | |
| | | 3 mg/l | Microorganisms in sewage treatments | | |
| titanium dioxide | 13463-67-7 | 0,184 mg/l | Fresh Water | | |
| | | 100 mg/kg | Soil | | |
| | | 100 mg/l | Microorganisms in sewage treatments | | |
| | | 0,0184 mg/l | Marine water | | |
| | | 100 mg/kg | Marine water sediments | | |
| | | 1000 mg/kg | Freshwater sediments | | |
| | | 0,193 mg/l | Intermittent release | | |

Derived No Effect Level. (DNEL)

| Component | CAS-No. | Worker Industry | Worker Professional | Consumer | Exposure Route | Exposure Frequency | Remark |
|-------------------|------------|-----------------|---------------------|-----------|------------------|-----------------------------|--------|
| calcium hydroxide | 1305-62-0 | 4 | | 4 | Human Inhalation | Short Term, local effects | |
| | | DXE2H_01 | | DXE2H_05 | | | |
| | | 1 | | 1 | Human Inhalation | Long Term, local effects | |
| titanium dioxide | 13463-67-7 | 10 | 10 | | Human Inhalation | Long Term, local effects | |
| | | DXE2H_01 | DXE2H_03 | | | | |
| | | | | 700 mg/kg | Human Oral | Long Term, systemic effects | |

Appropriate engineering controls

no data available

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: DXE2H_STR2LOV_093

Appearance: Powder

Odour: slight, typical of cement

Odour threshold: no data available

pH: no data available

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: no data available

Solubility in water: partly soluble

Solubility in oil: Insoluble

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available
Viscosity: no data available
Specific heat value: no data available
Saturated vapour concentration: no data available
Release of invisible flammable vapours and gases: no data available
Particle size: no data available
Size distribution: no data available
Shape and aspect ratio: no data available
Crystallinity: no data available
Dustiness: no data available
Surface area: no data available
Degree of aggregation or agglomeration, and dispersibility: no data available
Biodurability or biopersistence: no data available
Surface coating or chemistry: no data available
VOC content % in the product (2004/42CE) : 0 (Rule 1168) g
/ L

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

SECTION 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:

| | | |
|--|---------------------|--|
| free crystalline silica ($\varnothing > 10 \mu$) | a) acute toxicity | LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg |
| titanium dioxide | l) chronic toxicity | NOAEL Oral Rat = 1000 mg/kg |
| | a) acute toxicity | LD50 Oral Rat > 5000 mg/kg LD50 Skin Rat > 2000 mg/m3 LC50 Inhalation Rat = 4,26 mg/l 4h LD50 Skin Rabbit > 10000 mg/kg |
| calcium hydroxide | a) acute toxicity | LD50 Oral Rat > 2000 mg/kg LD50 Skin Rabbit > 2500 mg/kg |

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

Ecotoxicity

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 hydroxide | CAS: 1305-62-0 - EINECS: 215-137-3 | a) Aquatic acute toxicity : EC50 Daphnia = 49,1 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 184,57 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 457 mg/L 96 a) Aquatic acute toxicity : LC50 Fish = 50,6 mg/L 96 a) Aquatic acute toxicity : LC50 Daphnia = 158 mg/L 96 b) Aquatic chronic toxicity : NOEC Algae = 48 mg/L 72 b) Aquatic chronic toxicity : NOEC Daphnia = 32 mg/L - 14 d d) Terrestrial toxicity : NOEC = 2000 mg/kg e) Plant toxicity : NOEC = 1080 mg/kg - 21 d |
| 1-2.5 % | titanium dioxide | CAS: 13463-67-7 - EINECS: 236-675-5 | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72 a) Aquatic acute toxicity : NOEC Algae = 5600 mg/L 72 a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48 |

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

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

no data available

UN proper shipping name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

15. Regulatory information

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

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICS: all components are listed

16. Other information

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

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

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

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

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

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

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

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

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION