

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## SikaEmaco S 5450 PG Formerly MEmaco S 5450PG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.10.2022	960000014916	Date of first issue: 14.10.2022

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

#### 1.1 Product identifier

Trade name : SikaEmaco S 5450 PG Formerly MEmaco S 5450PG  
Product code : 000000000051229948 000000000051229948

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Product for construction chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company : MBCC Construction Chemicals Ltd.  
Watchmead  
AL7 1BQ Welwyn Garden City  
Telephone : +441617276300  
E-mail address of person  
responsible for the SDS : [product-safety@mbcc-group.com](mailto:product-safety@mbcc-group.com)

#### 1.4 Emergency telephone

ChemTel: +1-813-248-0585

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

#### 2.2 Label elements

**Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

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Hazard pictograms :



Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous ingredients which must be listed on the label:

Cement, portland, chemicals  
Calcium dihydroxide

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : modified cement mortar

#### Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)

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	Registration number		
Cement, portland, chemicals	65997-15-1 266-043-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 30 - < 50
Calcium dihydroxide	1305-62-0 215-137-3 01-2119475151-45	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
Substances with a workplace exposure limit :			
crystalline silica	14808-60-7 238-878-4		>= 50 - < 70
calcium carbonate	471-34-1 207-439-9 01-2119486795-18		>= 1 - < 10
Fumes, silica	69012-64-2 273-761-1		>= 1 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : First aid personnel should pay attention to their own safety.  
Remove contaminated clothing.
- If inhaled : After inhalation of dust.  
Keep patient calm, remove to fresh air.  
If difficulties occur:  
Seek medical attention.
- In case of skin contact : After contact with skin, wash immediately with plenty of water  
and soap.  
Under no circumstances should organic solvent be used.  
If irritation develops, seek medical attention.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running  
water with eyelids held open, consult an eye specialist.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water,  
seek medical attention.  
Do not induce vomiting unless told to by a poison control center or doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.  
Causes serious eye damage.

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May cause respiratory irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Foam  
Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

Unsuitable extinguishing media : water jet

### 5.2 Special hazards arising from the substance or mixture

### 5.3 Advice for firefighters

Further information : Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.  
The degree of risk is governed by the burning substance and the fire conditions.  
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.  
Avoid contact with skin and eyes.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene and safety practice.

### 6.2 Environmental precautions

Environmental precautions : Do not discharge into drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep/shovel up.  
Keep in suitable, closed containers for disposal.

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### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid dust formation.  
Avoid inhalation of dusts.  
Avoid contact with skin and eyes.  
The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Pour downwind and allow as little free fall as possible while emptying bags into equipment.  
Breathing must be protected when large quantities are decanted without local exhaust ventilation.
- Advice on protection against fire and explosion : No special precautions necessary.
- Hygiene measures : When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Remove contaminated clothing immediately and clean before reuse or dispose it if necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

- Further information on storage conditions : Containers should be stored tightly sealed in a dry place.
- Recommended storage temperature : 0 - 35 °C

### 7.3 Specific end use(s)

- Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
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formaldehyde	50-00-0	TWA	2 ppm 2.5 mg/m <sup>3</sup>	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				
		STEL	2 ppm 2.5 mg/m <sup>3</sup>	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				
		STEL	0.6 ppm 0.74 mg/m <sup>3</sup>	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
		TWA	0.3 ppm 0.37 mg/m <sup>3</sup>	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
Good ventilation should be provided for intended indoor use to prevent accumulation of formaldehyde in ambient air and to avoid exceeding of the occupational exposure limit.				
crystalline silica	14808-60-7	TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
Further information: Carcinogens or mutagens				
Cement, portland, chemicals	65997-15-1	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
Fumes, silica	69012-64-2	TWA (inhalable dust)	6 mg/m <sup>3</sup> (Silica)	GB EH40
		TWA (Respirable dust)	2.4 mg/m <sup>3</sup> (Silica)	GB EH40
Calcium dihydroxide	1305-62-0	TWA	5 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	1 mg/m <sup>3</sup>	GB EH40
		STEL (Respirable fraction)	4 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	1 mg/m <sup>3</sup>	2017/164/EU
Further information: Indicative				
		STEL (Respirable fraction)	4 mg/m <sup>3</sup>	2017/164/EU
Further information: Indicative				

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Hand protection

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Remarks	:	nitrile coated cotton gloves (e.g. EN 388, 374)
Skin and body protection	:	Body protection must be chosen based on level of activity and exposure. light protective clothing
Respiratory protection	:	Breathing protection if dusts are formed.
Filter type	:	Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2) (Particle filter EN 143 P2 or FFP2)
Protective measures	:	Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	:	Amorphous powder
Color	:	grey-brown
Odor	:	product specific
Odor Threshold	:	Not determined due to potential health hazard by inhalation.
pH	:	$\geq 10$ (20 °C) Concentration: 50 % (as aqueous solution)
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability (solid, gas)	:	not flammable
Upper explosion limit / Upper flammability limit	:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Lower explosion limit / Lower flammability limit	:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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Bulk density : 1,500 kg/m<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : insoluble

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

### 9.2 Other information

Metal corrosion rate : Not corrosive to metals.

Self-ignition : not self-igniting

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : The product is stable if stored and handled as prescribed/indicated.

### 10.4 Conditions to avoid

Conditions to avoid : See SDS section 7 - Handling and storage.

### 10.5 Incompatible materials

Materials to avoid : Strong bases  
Strong acids

### 10.6 Hazardous decomposition products

formaldehyde

Traces of the substances/groups of substances mentioned can be released at elevated temperatures.

The substances/substance groups mentioned are formed by hydrolysis.

The substances/groups of substances mentioned may be released during processing.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

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### **Skin corrosion/irritation**

Causes skin irritation.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Product:**

Remarks : Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT-single exposure**

May cause respiratory tract irritation.

### **STOT-repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

#### **Product:**

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

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Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: Not applicable for inorganic substances.

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.

### 12.4 Mobility in soil

**Product:**

Distribution among environmental compartments : Remarks: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.  
The substance will not evaporate into the atmosphere from the water surface.

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Observe national and local legal requirements.  
Residues should be disposed of in the same manner as the  
substance/product.
- Contaminated packaging : Completely emptied packagings can be given for recycling.
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### SECTION 14: Transport information

#### 14.1 UN number

- ADN : Not regulated as a dangerous good
- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

- ADN : Not regulated as a dangerous good
- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

- ADN : Not regulated as a dangerous good
- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA : Not regulated as a dangerous good

#### 14.4 Packing group

- ADN : Not regulated as a dangerous good
- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA (Cargo) : Not regulated as a dangerous good

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**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

#### Other regulations:

### 15.2 Chemical Safety Assessment

Chemical Safety Assessment not required

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## SECTION 16: Other information

### Full text of H-Statements

H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H335 : May cause respiratory irritation.

### Full text of other abbreviations

Eye Dam. : Serious eye damage  
Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure  
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens

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at work  
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a  
fourth list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2004/37/EC / STEL : Short Term Exposure Limit  
2004/37/EC / TWA : Long term exposure limit  
2017/164/EU / STEL : Short Term Exposure Limit  
2017/164/EU / TWA : Limit Value - eight hours  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335

#### Classification procedure:

Calculation method
Calculation method
Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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