



**Kemgard® 981**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2020/878

Issue Date 01/Jan/2024

Print Date 14/Dec/2023

Revision Number 1.4.1

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

### **1.1. Product identifier**

**Product Name:** Kemgard® 981

**Pure substance/mixture** Mixture

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

**Recommended Use** Flame retardant Smoke suppressant

**Uses advised against** None known.

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

**Manufacturer** J.M. Huber Corporation  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA  
Tel: +1 678 247-7300

**Internet** [www.huberadvancedmaterials.com](http://www.huberadvancedmaterials.com)

**Contact E-Mail** [www.huberadvancedmaterials.com/contact](http://www.huberadvancedmaterials.com/contact)

**E-mail** [hubermaterials@huber.com](mailto:hubermaterials@huber.com)

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

**Poison control center phone number** National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

**(CLP) Regulation (EC 1272/2008)** This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]

#### **Hazards identification**

**Physical Hazard** Not classified

**Health Hazards** Not classified

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**Environmental Hazard**Acute Aquatic Toxicity: Category 1  
Chronic Aquatic Toxicity: Category 1**2.2. Label elements****Symbols/Pictograms****Signal Word**

Warning

**Hazard Statements**H410 - Very toxic to aquatic life with long lasting effects  
H400 - Very toxic to aquatic life**Precautionary Statements****Prevention**P202 - Do not handle until all safety precautions have been read and understood  
P273 - Avoid release to the environment**Response**P391 - Collect spillage  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**Storage**

Store away from incompatible materials

**Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant.

**2.3. Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

**3.2. Mixture**

Mixture

Chemical Name	CAS Number	EC No	(CLP) Regulation (EC 1272/2008)	Weight-%
Zinc Oxide	1314-13-2	215-222-5	Aquatic Acute Category 1; H400. Aquatic Chronic Category 1; H410.	>25
Zinc Phosphate	7779-90-0	231-944-3 *	Aquatic Acute Category 1; H400. Aquatic Chronic Category 1; H410.	>25

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Zinc Phosphate:

M=1

M(Chronic)=1

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General Advice</b>	When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Eye Contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Inhalation</b>	Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Notes to Physician</b>	Treat symptomatically.

**4.2. Most important symptoms and effects, both acute and delayed** Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable Extinguishing Media

None known.

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

Non-combustible.

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## 5.3. Advice for firefighters

### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### Fire-fighting measures

Water mist may be used to cool closed containers.

## SECTION 6: Accidental release measures

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

Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8. Keep unauthorized personnel away.

#### For non-emergency personnel

Keep unauthorized personnel away.

#### For emergency responders

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Avoid runoff to waterways and sewers.

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

Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container

### 6.4. Reference to other sections

Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use  
Do not handle until all safety precautions have been read and understood.  
Minimize dust generation and accumulation  
Ensure adequate ventilation  
Handle in accordance with good industrial hygiene and safety practice  
Use personal protective equipment as required

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

Keep container tightly closed and dry  
Store away from incompatible materials

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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## Occupational exposure limits

### Zinc Oxide

**ACGIH**

STEL: 10 mg/m<sup>3</sup> (respirable)

**OSHA**

TWA: 2 mg/m<sup>3</sup> (respirable)

**NIOSH**

PEL: 15 mg/m<sup>3</sup> (total dust)

5 mg/m<sup>3</sup> (respirable fraction)

Ceiling: 15 mg/m<sup>3</sup> (total dust)

STEL: 10 mg/m<sup>3</sup> (fume)

TWA: 5 mg/m<sup>3</sup> (total dust)

**Austria**

MAK: 5 mg/m<sup>3</sup> (fume, respirable dust)

**Belgium**

STEL: 10 mg/m<sup>3</sup> (fume, respirable fraction)

TWA: 5 mg/m<sup>3</sup> (fume); 2 mg/m<sup>3</sup> (respirable fraction)

**Bulgaria**

STEL: 10 mg/m<sup>3</sup>

TWA: 5 mg/m<sup>3</sup>

**Cyprus**

TWA: 5 mg/m<sup>3</sup> (fume)

**Czech Republic**

Ceiling: 5 mg/m<sup>3</sup>

TWA: 2 mg/m<sup>3</sup>

**Denmark**

TLV: 4 mg/m<sup>3</sup>

**Estonia**

TWA: 5 mg/m<sup>3</sup>

**Finland**

STEL: 10 mg/m<sup>3</sup> (fume)

TWA: 2 mg/m<sup>3</sup> (fume)

**France**

VME: 5 mg/m<sup>3</sup> (fume); 10 mg/m<sup>3</sup> (dust)

**Germany**

DFG MAK: TWA: 1 mg/m<sup>3</sup> (respirable)

**Greece**

STEL: 10 mg/m<sup>3</sup> (fume)

5 mg/m<sup>3</sup> (fume)

**Hungary**

STEL: 20 mg/m<sup>3</sup> (respirable)

TWA: 5 mg/m<sup>3</sup> (respirable)

**Iceland**

TWA: 4 mg/m<sup>3</sup> (fume)

**Ireland**

STEL: 10 mg/m<sup>3</sup> (respirable fraction & fume)

TWA: 2 mg/m<sup>3</sup> (respirable fraction & fume)

**Italy**

STEL: 10 mg/m<sup>3</sup> (respirable fraction)

TWA: 2 mg/m<sup>3</sup> (respirable fraction)

**Latvia**

TWA: 0.5 mg/m<sup>3</sup>

**Lithuania**

TWA: 5 mg/m<sup>3</sup>

**Norway**

TLV: 5 mg/m<sup>3</sup>

**Poland**

STEL: 10 mg/m<sup>3</sup> (fume)

TWA: 5 mg/m<sup>3</sup> (fume)

**Portugal**

TWA: 2 mg/m<sup>3</sup> (respirable fraction)

**Portugal**

STEL 10 mg/m<sup>3</sup> Respirable fraction

**Romania**

TWA: 5 mg/m<sup>3</sup> (fume)

**Romania**

STEL 10 mg/m<sup>3</sup> Fume

**Slovakia**

STEL: 1 mg/m<sup>3</sup> (respirable fume)

TWA: 1 mg/m<sup>3</sup> (respirable fume)

**Slovenia**

TWA: 5 mg/m<sup>3</sup> (respirable fume)

**Spain**

STEL: 10 mg/m<sup>3</sup> (respirable fraction)

TWA: 2 mg/m<sup>3</sup> (respirable fraction)

**Sweden**

TWA: 5 mg/m<sup>3</sup> (total dust)

**Switzerland**

STEL: 3 mg/m<sup>3</sup> (fume & respirable dust)

TWA 3 mg/m<sup>3</sup> (fume & respirable dust)

**Switzerland**

STEL 3 mg/m<sup>3</sup> Fume and respirable

dust

### Zinc Phosphate

**OSHA**

15 mg/m<sup>3</sup> Total Dust

5 mg/m<sup>3</sup> Respirable Dust

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**Recommended monitoring procedures** Refer also to national guidance documents for information on currently recommended monitoring procedures

**Biological Limit Values** None

**DNEL (Derived No Effect Level)** No data available

**PNEC (Predicted No Effect Concentration)** No information available

## 8.2. Exposure controls

**Engineering Measures** Do not handle until all safety precautions have been read and understood  
Ensure adequate ventilation, especially in confined areas  
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)  
Use exhaust ventilation to keep airborne concentrations below exposure limits  
In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

**Hand Protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards** None known.

**Hygiene Measures** Follow general hygiene considerations recognized as common good workplace practices

**Environmental Exposure Controls** Dispose of in accordance with local regulations  
Do not empty into drains or water courses

## SECTION 9: Physical and chemical properties

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

#### Appearance:

**Physical State** Solid Powder

**Color** White

**Odor** Odorless

**Odor Threshold** No information available

**pH:** 6.5

**Melting Point / Melting Range** Not applicable

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<b>Melting point / Freezing point</b>	Not applicable
<b>Boiling Point</b>	No information available
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	--
<b>Lower flammability limit:</b>	--
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Density</b>	No data available
<b>Relative Density</b>	
<b>Water Solubility</b>	Slightly soluble
<b>Partition coefficient</b>	No information available
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No information available.
<b>Kinematic viscosity</b>	Not applicable
<b>Oxidizing Properties</b>	Not applicable
<b>Particle Size</b>	No information available
<b>Specific Gravity</b>	4.2 g/cm <sup>3</sup> , 20° C
<b>VOC Content (%)</b>	Not applicable

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Not applicable

**9.2.2. Other safety characteristics**

Not applicable

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Stable under normal conditions
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	None under normal processing
<b>10.4. Conditions to avoid</b>	Dust formation Incompatible materials
<b>10.5. Incompatible materials</b>	Strong oxidizing agents
<b>10.6. Hazardous decomposition products</b>	None known

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## SECTION 11: Toxicological information

### General Information

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

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

#### Zinc Oxide

LD50s and LC50s 5000 mg/kg Oral LD50 Rat

Oral LD50 7950 mg/kg Rat

#### Zinc Phosphate

LD50s and LC50s 5000 mg/kg Oral LD50 Rat

Oral LD50 > 5000 mg/kg Rat

### Acute Toxicity

Low hazard for usual industrial or commercial handling

### Chronic Toxicity

No data available.

### Chronic Effects

No data available.

### Respiratory Sensitization

Does not cause sensitization

### Serious eye damage/eye irritation

Dust may cause mechanical irritation to eyes

### Skin Corrosion/Irritation

Prolonged or repeated contact may dry skin and cause irritation

### Skin Sensitization

Not a skin sensitizer

### Mutagenicity

No information available

### Germ cell mutagenicity

No information available.

### Reproductive Effects

This product does not contain any known or suspected reproductive hazards.

### Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Target Organ Effects

Skin. Eyes. Respiratory system.

### Specific target organ toxicity - Single exposure

Not classified.

### Specific target organ toxicity - Repeated exposure

Not classified.

### Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory tract irritation



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<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	No known hazard in contact with skin
<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Dust may cause mechanical irritation to eyes.

## 11.2. Information on other hazards

**11.2.1. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

**11.2.2. Other information** Not applicable

## SECTION 12: Ecological information

**12.1. Toxicity** Very toxic to aquatic life with long lasting effects

### Zinc Oxide

**WGK Classification (AwSV)** 2187 WGK: 2

### Zinc Phosphate

**Germany - Water Classification (AwSV) - Annex 3:** 5067 hazard class 2 - hazard to waters

**12.2. Persistence and degradability** No data available.

**12.3. Bioaccumulative potential** No data available.

**Bioconcentration factor (BCF)** No data available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Disposal Methods</b>	Dispose of waste product or used containers according to local regulations. Do not allow to enter into surface water or drains.
<b>Contaminated Packaging</b>	Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used

#### Zinc Oxide

WGK Classification (AwSV) 2187 WGK: 2

## SECTION 14: Transport information

### Mode of Transportation (Road, Water, Air, Rail)

<b>TDG -Canada</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>DOT</b>	Not regulated in non-bulk packages (<119 gal), , UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>ADR</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>RID</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>ADN</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>IATA</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>IMDG/IMO</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)
<b>ICAO</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)

**14.1. UN number** UN3077**14.2. UN proper shipping name** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Zinc oxide, Zinc phosphate)**14.3. Transport hazard class(es)** 9

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## Subsidiary Risk

-

## 14.4. Packing group

III

## 14.5. Environmental hazards

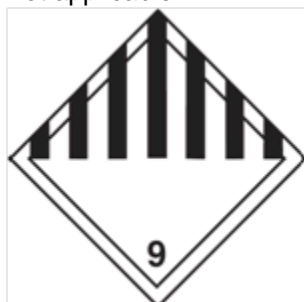
Yes : Marine Pollutant

## 14.6. Special precautions for user

Do not handle until all safety precautions have been read and understood.

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable



Marine Pollutant



## SECTION 15: Regulatory information

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

#### Global Inventories

#### Pure substance/mixture

Mixture

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Zinc Oxide	1314-13-2	215-222-5	Y	Y	Y	ENCS: (1)-561 ISHL: (1)-561	KE-35565	Y	55-1-0137 7	Y	Y	Y	A
Zinc Phosphate	7779-90-0	231-944-3 *	Y	Y	Y	(1)-526 (ENCS) (1)-1181 (ENCS)	KE-34945	Zinc salts	55-1-0608 8	Y	Y	Y	A

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**REACH No.****Zinc Oxide**

EU REACH registration number 01-2119463881-32  
Turkish KKDIK pre-registration 05-0000192715-32-0000

**Zinc Phosphate**

EU REACH registration number 01-2119485044-40  
Turkish KKDIK pre-registration 05-0000192733-32-0000

Very toxic to aquatic life with long lasting effects

**Zinc Oxide**

WGK Classification (AwSV) 2187 WGK: 2

**Zinc Phosphate**

Germany - Water Classification (AwSV) - Annex 3: 5067 hazard class 2 - hazard to waters

**15.2. Chemical safety assessment**

## SECTION 16: Other information

**Reason for Revision**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

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**Prepared by**

Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.

**(CLP) Regulation (EC 1272/2008)**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]

**Labeling****Symbols/Pictograms****Signal Word**

Warning

**Hazard Statements**

H410 - Very toxic to aquatic life with long lasting effects. H400 - Very toxic to aquatic life.

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Marine Pollutant

**Training Advice**

Do not handle until all safety precautions have been read and understood.

**Abbreviations and acronyms**

IARC (International Agency for Research on Cancer)  
IUCLID (International Uniform Chemical Information Database)  
WHMIS (Workplace Hazardous Materials Information System)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
TWA (Time-Weighted Average)  
CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))  
PPE (Personal Protection Equipment)  
NIOSH (National Institute for Occupational Safety and Health)  
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)  
RQ (Reportable Quantity) (RQ/% in mixture)  
STEL (Short Term Exposure Limit)  
TLV® (Threshold Limit Value)  
DNEL (Derived No Effect Level)  
SVHC (Substances of Very High Concern)  
BOD (Biochemical oxygen demand)  
COD (Chemical oxygen demand)  
ICAO (International Civil Aviation Organization)  
IMDG (International Maritime Dangerous Goods)  
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
DOT (Department of Transportation)  
TDG (Transport of Dangerous Goods) Canada  
PNEC (Predicted No Effect Concentration)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure  
GHS (Globally Harmonized System)  
TSCA (Toxic Substances Control Act)

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge,

HUBER

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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.

**End of Safety Data Sheet**