

### Kemgard® 981-UF

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03 Canadian Workplace Hazardous Material Information System (WHMIS) 2015 Mexico NOM-018-STPS-2000; NOM-018-STPS-2015 Globally Harmonized System (GHS)

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

1.1. Product identifier

**Product Name:** Kemgard® 981-UF

Pure substance/mixture Mixture

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

Recommended Use Flame retardant Smoke suppressant

None known. Uses advised against

1.3. Details of the supplier of the safety data sheet

J.M. Huber Corporation Company:

3100 Cumberland Boulevard, Suite 600

Atlanta, GA 30339 USA Tel: +1 678 247-7300

www.hubermaterials.com Internet

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

### **SECTION 2: Hazards identification**

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

**GHS Classification** Hazardous to the aquatic environment - Acute, category 1

Hazardous to the aquatic environment - Chronic, category 1

Not classified **Physical Hazards** 

Not classified **Health Hazards** 

**Environmental Hazard** Hazardous to the aquatic environment - Acute, category 1

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Hazardous to the aquatic environment - Chronic, category 1

### 2.2. Label elements

### Symbols/Pictograms



Signal Word Warning

**Hazard Statements** Very toxic to aquatic life with long lasting effects

**Precautionary Statements** 

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

Employ good industrial hygiene practice Wash hands thoroughly after handling Avoid release to the environment

IF ON SKIN: Wash with plenty of soap and water Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing

Keep in a dry place Storage

Store away from incompatible materials

Disposal Disposal should be in accordance with applicable regional, national and local laws

and regulations

Do not allow to enter into surface water or drains

Hazards not otherwise classified None known. (HNOC)

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# **SECTION 3: Composition/information on ingredients**

Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Zinc Oxide	1314-13-2	А	Υ	Y	01-211946388 1-32	Not classified		>25
Zinc Phosphate	7779-90-0	А	Y	Zinc salts	01-211948504 4-40	Not classified		>25

Legend

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

**General Advice** Do not handle until all safety precautions have been read and understood. Employ

> good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if

symptoms are observed, get medical advice.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

**Skin Contact** Wash with plenty of soap and water.

Rinse mouth thoroughly with water. Ingestion

Inhalation Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

**Aspiration hazard** Based on available data, the classification criteria are not met.

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.

medical attention and special

treatment needed

**4.3. Indication of any immediate** Treatment should be symptomatic and supportive. 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

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Media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

### **Unsuitable Extinguishing Media**

None known.

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

Non-combustible.

#### 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. No special fire protection measures are necessary. Standard procedure for chemical fires.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Avoid dust formation. Ensure adequate

ventilation. Use personal protection recommended in Section 8.

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. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

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7.2. Conditions for safe storage, Keep container tightly closed and dry. Store away from incompatible materials.

including any incompatibilities

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

Zinc Oxide

OSHA PEL: 15 mg/m3 (total dust) 5 mg/m<sup>3</sup> (respirable fraction)

**ACGIH** STEL: 10 mg/m³ (respirable) TWA: 2 mg/m³ (respirable) NIOSH 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) Mexico

5 mg/3

Zinc Phosphate

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

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

**Biological Limit Values:** No information available

Derived No Effect Level (DNEL) No data available

Predicted No Effect Concentration (PNEC) 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

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

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

For operations where prolonged or repeated skin contact may occur, impervious Hand protection

aloves should be worn.

**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.

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Thermal hazards None known. Wear suitable protective clothing.

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

practices. The worker should wash daily at the end of each work shift, and prior to

eating, drinking, smoking, etc.

**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 (5% water suspension)

**Melting Point / Melting Range** Not applicable

**Boiling Point** No information available

**Freezing Point** Not applicable **Evaporation Rate** Not applicable. Not applicable Flammability (solid, gas)

**Upper flammability limit:** 

Lower flammability limit:

**Vapor Density** Not applicable

**Relative Density** 

**Water Solubility** Slightly soluble

Solubility in other solvents

**Partition coefficient** 

**Autoignition Temperature** Not applicable 4.2 g/cm3, 20° C **Specific Gravity** Not applicable **VOC Content (%)** 

# **SECTION 10: Stability and reactivity**

Stable under normal conditions 10.1. Reactivity

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

None under normal processing

10.4. Conditions to avoid **Dust formation Incompatible materials** 

10.5. Incompatible materials Strong oxidizing agents

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10.6. Hazardous decomposition None known

products

# **SECTION 11: Toxicological information**

**General Information** Users are advised to consider national Occupational Exposure Limits or other

equivalent values.

Information on Likely Routes of Exposure

Inhalation May cause respiratory tract irritation

Skin No known hazard in contact with skin

**Eyes** Dust contact with the eyes can lead to mechanical irritation

Ingestion Ingestion is not a likely route of exposure

Based on available data, the classification criteria are not met. **Aspiration hazard** 

Symptoms related to the physical, chemical and toxicological characteristics

Dust may cause mechanical irritation to eyes.

#### 11.1. Information on toxicological effects

Zinc Oxide

LD50s and LC50s 5000 mg/kg Oral LD50 Rat

Oral LD50 7950 mg/kg Rat

Zinc Phosphate

5000 mg/kg Oral LD50 Rat LD50s and LC50s

Oral LD50 > 5000 mg/kg Rat

Low hazard for usual industrial or commercial handling **Acute Toxicity** 

**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

No information available Mutagenicity

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**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.

# **SECTION 12: Ecological information**

**12.1. Ecotoxicity** 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  $\nu P \nu B$ .

**12.6. Other adverse effects** No information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Disposal Methods**Dispose of waste product or used containers according to local regulations. Do not

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allow to enter into surface water or drains.

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be

taken to an approved waste handling site for recycling or disposal.

Waste codes 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)

**DOT** UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

ADR UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

ADN UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

IATA UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

**IMDG/IMO** UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

ICAO UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

**14.1. UN number** UN3077

14.2. UN proper shipping name UN3077, Environmentally hazardous substances, n.o.s. (Zinc oxide), 9, PG III,

Marine Pollutant

14.3. Transport hazard class(es) 9

Subsidiary Risk -

14.4. Packing group

14.5. Environmental hazards Yes: Marine Pollutant

**14.6. Special precautions for** Do not handle until all safety precautions have been read and understood.

user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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**Marine Pollutant** 



### **SECTION 15: Regulatory information**

### **Global Inventories**

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)		TSCA: United States
Zinc Oxide	1314-13-2	215-222-5	01-211946 3881-32	Y	Y	Y	ENCS: (1)-561 ISHL: (1)-561	KE-35565	Y	Y	Y	Y	A
Zinc Phosphate	7779-90-0	231-944-3	01-211948 5044-40	Y	Y	Y	(1)-526 (ENCS) (1)-1181 (ENCS)	KE-34945	Zinc salts	Y	Y	Y	A

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

### **US Federal Regulations**

**EPA** 

Zinc Oxide **SARA 313** 

Yes

### U.S. State Right-to-Know Regulations

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Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Zinc Oxide	1314-13-2		Y	Y	Y	Y
Zinc Phosphate	7779-90-0					

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

### **CANADA**

#### WHMIS:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

### **SECTION 16: Other information**

Huber Engineered Materials (HEM) Global Regulatory Affairs Prepared by

regulatory.affairs@huber.com

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Reason for Version OSHA (Occupational Safety and Health Administration of the US Department of

Labor).

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

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG)

International Uniform Chemical Information Database (IUCLID)

Workplace Hazardous Materials Information System (WHMIS) status and classification

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA - Time-Weighted Average

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)

PPE - Personal Protection Equipment

NIOSH - National Institute for Occupational Safety and Health

TDG (Transport of Dangerous Goods) Canada

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

Reportable Quantity (RQ) (RQ/% in mixture)

STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL)

SVHC: Substances of Very High Concern for Authorization:

Land transport (ADR/RID)

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)

(IMDG) International Maritime Dangerous Goods

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

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**End of Safety Data Sheet**