



**Kemgard® 911C**

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

Issue Date 10/Jan/2024

Print Date 10/Jan/2024

Revision Number 1.5.3

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

### **1.1. Product identifier**

**Product Name:** Kemgard® 911C

**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**

**Company:** J.M. Huber Corporation  
Cumberland Boulevard, Suite 600 , GA 30339 USA : +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** Specific target organ toxicity (STOT) - repeated exposure, category 2

**Environmental Hazard** Chronic Aquatic Toxicity, Category 3

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## 2.2. Label elements

### Symbols/Pictograms



### Signal Word

Warning

### Hazard Statements

H373 – May cause damage to organs (kidneys) through prolonged or repeated exposure  
H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements

### Prevention

P260 - Do not breathe dust  
P273 - Avoid release to the environment  
Employ good industrial hygiene practice  
Wash hands thoroughly after handling

### Response

P314 - Get medical advice/attention if you feel unwell  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
IF ON SKIN: Wash with plenty of soap and water

### Storage

Keep in a dry place  
Store away from incompatible materials

### Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

### Additional Information:

Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1).

## 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-%
Talc	14807-96-6	238-877-9	Not classified.	75 - 90
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	245-322-4	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411.	10 - 25

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Crystalline Silica, quartz (impurity)	14808-60-7	238-878-4	Carcinogenicity category 1A. Specific target organ toxicity (STOT) - repeated exposure, category 2. ∴ Respiratory system.	<0.1
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**Additional information**

Exempt or - : this substance or its uses are exempted from REACH registration or no REACH registration obligation as annual tonnage <1tpa. TSCA A: Component is listed on Inventory as Active

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General Advice**

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.

**Eye Contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact**

Wash with plenty of soap and water.

**Inhalation**

Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**

Rinse mouth thoroughly with water.

**Aspiration hazard**

Not an expected route of exposure.

**Notes to Physician**

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>).

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Do not use water jetstream.

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

Heating can release hazardous gases.

**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

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Talc

ACGIH	TWA: 2 mg/m <sup>3</sup> (respirable dust)
OSHA	TWA: 20 mppcf
Austria	MAK: 2 mg/m <sup>3</sup> (respirable fraction)
Belgium	TWA: 2 mg/m <sup>3</sup>
Bulgaria	TWA: 1 fibers/cm <sup>3</sup> (respirable fraction)
	6 mg/m <sup>3</sup> (inhalable fraction)
	3 mg/m <sup>3</sup> (respirable fraction)
Croatia	MAC: 1 mg/m <sup>3</sup>
Cyprus	TWA: 706 particle/m <sup>3</sup>
Czech Republic	TWA: 10 mg/m <sup>3</sup> (respirable dust)
	10 mg/m <sup>3</sup> (total dust)
Greece	TWA: 2 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (inhalable)
Hungary	TWA: 2 mg/m <sup>3</sup> (respirable)
Ireland	TWA: 10 mg/m <sup>3</sup> (total inhalable dust)
	0.8 mg/m <sup>3</sup> (respirable dust)
Italy	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Italy	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Lithuania	TWA: 2 mg/m <sup>3</sup> (inhalable fraction)
	1 mg/m <sup>3</sup> (respirable fraction)
Netherlands	TWA: 0,25 mg/m <sup>3</sup> (respirable dust)
Norway	TLV: 6 mg/m <sup>3</sup> (total dust)
	2 mg/m <sup>3</sup> (respirable dust)
Poland	TWA: 4 mg/m <sup>3</sup> (total dust)
	1 mg/m <sup>3</sup> (respirable dust)
Portugal	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Slovakia	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
	10 mg/m <sup>3</sup> (total)
Slovenia	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Spain	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Sweden	TWA: 2 mg/m <sup>3</sup> (total dust)
	1 mg/m <sup>3</sup> (respirable dust)
Switzerland	TWA: 2 mg/m <sup>3</sup> (respirable dust)
United Kingdom	TWA: 1 mg/m <sup>3</sup> (respirable dust)

##### Zinc Molybdenum Oxide

ACGIH	TWA: 10 mg/m <sup>3</sup> dust
	0.5 mg/m <sup>3</sup> Respirable fraction
OSHA	TWA: 5 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (dust)
	PEL: 5 mg/m <sup>3</sup> (respirable)
NIOSH	8-hr TWA: 10 mg/m <sup>3</sup>
Bulgaria	TWA: 10 mg/m <sup>3</sup>
Czech Republic	Ceiling: 25mg/m <sup>3</sup>
	TWA: 5 mg/m <sup>3</sup>
Estonia	TWA: 5 mg/m <sup>3</sup> (respirable dust)
	10 mg/m <sup>3</sup> (total dust)
Estonia	STEL: 0.5 mg/m <sup>3</sup>
Finland	TWA: 0,5 mg/m <sup>3</sup>
France	VLE: 10 mg/m <sup>3</sup>
	VME: 5 mg/m <sup>3</sup>

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<b>Germany</b>	DFG MAK: TWA: 2 mg/m <sup>3</sup> (inhalable fraction) 0,1 mg/m <sup>3</sup> (respirable fraction)
<b>Poland</b>	STEL: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
<b>Poland</b>	STEL 10 mg/m <sup>3</sup>
<b>Slovakia</b>	TWA 2 mg/m <sup>3</sup> Inhalable fraction 0,1 mg/m <sup>3</sup> Respirable fraction
<b>Slovenia</b>	TWA: 5 mg/m <sup>3</sup> (inhalable fraction)
<b>Spain</b>	STEL 10 mg/m <sup>3</sup> Respirable fraction
<b><u>Crystalline Silica, quartz (impurity)</u></b>	
<b>ACGIH</b>	TWA: 0.025 mg/m <sup>3</sup> respirable fraction
<b>OSHA</b>	TWA: 0.05 mg/m <sup>3</sup> OSHA Action level: 0.025 mg/m <sup>3</sup>
<b>NIOSH</b>	0.05 mg/m <sup>3</sup> TWA (respirable dust)
<b>Austria</b>	MAK: 0,15 mg/m <sup>3</sup> (respirable dust)
<b>Belgium</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Bulgaria</b>	TWA: 0,07 mg/m <sup>3</sup> (respirable fraction)
<b>Croatia</b>	MAC: 0,1 mg/m <sup>3</sup>
<b>Czech Republic</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Denmark</b>	TLV 0,3 mg/m <sup>3</sup> (total) 0,1 mg/m <sup>3</sup> (respirable)
<b>Estonia</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Finland</b>	TWA: 0,05 mg/m <sup>3</sup> (respirable)
<b>France</b>	VME: 0,1 mg/m <sup>3</sup> (restrictive limit, alveolar fraction)
<b>Hungary</b>	TWA: 0,15 mg/m <sup>3</sup> (respirable)
<b>Iceland</b>	TWA: 0,3 mg/m <sup>3</sup> (total dust) 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Ireland</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Italy</b>	TWA: 0,025 mg/m <sup>3</sup> (respirable fraction)
<b>Italy</b>	TWA: 0,025 mg/m <sup>3</sup> (respirable fraction)
<b>Lithuania</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable fraction)
<b>Netherlands</b>	TWA: 0,075 mg/m <sup>3</sup> (respirable dust)
<b>Norway</b>	TLV: 0,3 mg/m <sup>3</sup> (total dust) 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Poland</b>	TWA: 2 mg/m <sup>3</sup> (total dust) 0,3 mg/m <sup>3</sup> (respirable dust)
<b>Portugal</b>	TWA: 0,025 mg/m <sup>3</sup> (respirable fraction)
<b>Slovakia</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable fraction)
<b>Slovenia</b>	TWA: 0,15 mg/m <sup>3</sup> (respirable fraction)
<b>Spain</b>	VLA-ED TWA: 0,1 mg/m <sup>3</sup> (respirable fraction)
<b>Sweden</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable dust)
<b>Switzerland</b>	TWA: 1, 15 mg/m <sup>3</sup> (respirable dust)
<b>United Kingdom</b>	TWA: 0,1 mg/m <sup>3</sup> (respirable)

**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

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## 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.

#### 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

## 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

No information available

#### Melting point / Freezing point

Not applicable

#### Initial boiling point

No information available

#### Boiling Point

No information available

#### Freezing Point

No information available

#### Flash Point

No data available

#### Evaporation Rate

Not applicable.

#### Flammability (solid, gas)

Not applicable

##### Upper flammability limit:

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##### Lower flammability limit:

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#### Vapor Pressure

No data available

#### Vapor Density

Not applicable

#### Vapor Density

No data available

#### Density

No data available

#### Relative Density

2.8 g/cm<sup>3</sup>

#### Water Solubility

Slightly soluble

#### Solubility in other solvents

No information available

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<b>Partition coefficient</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No information 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>Molecular Weight</b>	Not available
<b>Molecular Weight</b>	Not available
<b>Specific Gravity</b>	2.8 (H <sub>2</sub> O = 1)
<b>VOC Content (%)</b>	0%

**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>	Incompatible materials Dust formation
<b>10.5. Incompatible materials</b>	Strong oxidizing agents Strong acids
<b>10.6. Hazardous decomposition products</b>	None known

## SECTION 11: Toxicological information

<b>General Information</b>	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
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**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Talc**

<b>NTP (National Toxicology Program)</b>	male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice-no evidence
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**12.1. Toxicity** Harmful to aquatic life with long lasting effects Avoid release to the environment

**Talc****WGK Classification (AwSV)** 1315 WGK: nwg**Crystalline Silica, quartz (impurity)****WGK Classification (AwSV)** 849 WGK: nwg

**12.2. Persistence and degradability** Not readily biodegradable.

**12.3. Bioaccumulative potential** No information available.

**Partition coefficient** No data available

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

**12.4. Mobility in soil** No information 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

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal Methods** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**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

**Talc****WGK Classification (AwSV)** 1315 WGK: nwg**Crystalline Silica, quartz (impurity)****WGK Classification (AwSV)** 849 WGK: nwg

## SECTION 14: Transport information

HUBER

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

TDG -Canada	Not regulated
DOT	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for user Not applicable

14.7. Maritime transport in bulk according to IMO instruments  
Not applicable

## 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
Talc	14807-96-6	238-877-9	Y	Y	Y	(1)-468 (ENCS)(ISHL)	KE-32773	Y	55-1-01940	Y	Y	Y	A
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	245-322-4	N	Y	Y	(1)-781 (ENCS)(ISHL)	KE-11910	N	Y	N	N	Y	A
Crystalline Silica, quartz (impurity)	14808-60-7	238-878-4	Y	Y	Y	(1)-548 (ENCS)(ISHL)	KE-29983	Y	55-1-01941	Y	Y	Y	A

#### Talc

EU REACH registration number Exempt

#### Zinc Molybdenum Oxide

EU REACH registration number 01-2120800481-68-0000

Turkish KKDIK pre-registration 05-0000192714-03-0000

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EU REACH registration number Exempt

**Germany**

Harmful to aquatic life with long lasting effects Avoid release to the environment

**Talc****WGK Classification (AwSV)** 1315 WGK: nwg**Crystalline Silica, quartz (impurity)****WGK Classification (AwSV)** 849 WGK: nwg**15.2. Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

**Reason for Revision**

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

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**Prepared by**Huber Engineered Materials Global Regulatory Affairs  
(Email – HEM.FRAREgulatory@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**

H373 – May cause damage to organs (kidneys) through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.

**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)

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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, 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**