**SAFETY DATA SHEET** 

#### 30489-5181

# AMACO EST. 1919 brent

Revision Number 1

Revision date 19-Dec-2022

1. Identification	
Product identifier	
Product Name	C-20 Dry Cobalt
Other means of identification	
Product Code(s)	FG00415
Synonyms	39504D
Recommended use of the chemica	I and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	y data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	

Emergency Telephone

U.S. Poison Control 1-800-222-1222

#### 2. Hazard(s) identification

#### **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

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#### Hazard statements

Danger H301 - Toxic if swallowed H332 - Harmful if inhaled H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure

#### Physical state Powder

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/clothing and eye/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Immediately call a doctor Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

- 50.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 79.6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

#### 3. Composition/information on ingredients

#### Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
Quartz	14808-60-7	20 - 40
Wollastonite (Ca(SiO3))	13983-17-0	20 - 40
Frits, chemicals	65997-18-4	20 - 40
Kaolin	1332-58-7	5 - <10
C.I. Pigment Blue 73	68187-40-6	3 - <5
Aluminum oxide (Al2O3)	1344-28-1	1 - <3

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4. First-aid measures				
Description of first aid measures				
General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.			
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a physician.			
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.			
Skin contact	Wash skin with soap and water.			
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.			
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.			
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.			
Indication of any immediate medical attention and special treatment needed				
Note to physicians	Treat symptomatically.			
5. Fire-fighting measures				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.			
Large Fire Unsuitable extinguishing media	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams.			
Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.			
Large Fire Unsuitable extinguishing media Specific hazards arising from the	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. No information available.			
Large Fire Unsuitable extinguishing media Specific hazards arising from the chemical Explosion data	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. No information available.			
Large Fire Unsuitable extinguishing media Specific hazards arising from the chemical Explosion data Sensitivity to mechanical impac	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. No information available.			
Large Fire Unsuitable extinguishing media Specific hazards arising from the chemical Explosion data Sensitivity to mechanical impact Sensitivity to static discharge Special protective equipment and	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. No information available. It None. None. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			
Large Fire Unsuitable extinguishing media Specific hazards arising from the chemical Explosion data Sensitivity to mechanical impact Sensitivity to static discharge Special protective equipment and precautions for fire-fighters 6. Accidental release measure	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. No information available. It None. None. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			
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Methods for cleaning up Pick up and transfer to properly labeled containers.	Methods for containment	Prevent further leakage or spillage if safe to do so.
	Methods for cleaning up	Pick up and transfer to properly labeled containers.
7. Handling and storage		

Precautions	for safe	handling
i i couulions	Tor Suic	nununing

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust. Do not eat, drink or smoke when using this product.			
Conditions for safe storage, including any incompatibilities				

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

#### 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 µg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
Wollastonite (Ca(SiO3))	TWA: 1 mg/m <sup>3</sup> inhalable	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
13983-17-0	particulate matter, particulate	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	matter containing no asbestos	fraction	
	and <1% crystalline silica	(vacated) TWA: 15 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Frits, chemicals	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m <sup>3</sup> As
65997-18-4	TWA: 0.01 mg/m <sup>3</sup> As	TWA: 50 µg/m³ Pb	IDLH: 9 mg/m <sup>3</sup> Cd dust and
	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 0.5 mg/m <sup>3</sup> Sb	fume
	TWA: 0.01 mg/m <sup>3</sup> Cd	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 50 mg/m <sup>3</sup> Sb
	TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 100 mg/m <sup>3</sup> Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	mist
	TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 500 mg/m <sup>3</sup> Mn
	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 3 mg/m <sup>3</sup> W respirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
	particulate matter in the absence		IDLH: 10 mg/m <sup>3</sup> Ni
	of cobalt		Ceiling: 0.002 mg/m <sup>3</sup> As 15 min
	TWA: 5 mg/m <sup>3</sup> Zr		Ceiling: 0.05 mg/m <sup>3</sup> V dust and
	TWA: 0.02 mg/m <sup>3</sup> Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m <sup>3</sup> Sb
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		TWA: 1 mg/m <sup>3</sup> Cu dust and
	particulate matter		mist
			TWA: 1 mg/m <sup>3</sup> Mn
			TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m <sup>3</sup> Pb

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			TWA: 0.015 mg/m <sup>3</sup> except
			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			STEL: 10 mg/m <sup>3</sup> Zr
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dus
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
C.I. Pigment Blue 73	TWA: 0.02 mg/m <sup>3</sup> Co inhalable	_	-
68187-40-6	particulate matter		
Aluminum oxide (Al2O3)	TWA: 1 mg/m <sup>3</sup> respirable	TWA: 15 mg/m <sup>3</sup> total dust	-
1344-28-1	particulate matter	TWA: 5 mg/m <sup>3</sup> respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	

#### **Biological occupational exposure limits**

Chemical name	ACGIH
Frits, chemicals	200 μg/L - blood (Lead) - not critical
65997-18-4	5 μg/g creatinine - urine (Cadmium) - not critical
C.I. Pigment Blue 73	5 μg/L - blood (Cadmium) - not critical
68187-40-6	15 μg/L - urine (Cobalt) - end of shift at end of workweek

#### Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment			
Eye/face protection	No special protective equipment required.		
Hand protection	Wear suitable gloves.		
Skin and body protection	Wear suitable protective clothing.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapors/spray.		

#### 9. Physical and chemical properties

Information on basic physical and chemical properties Physical state Powder Appearance Color Odor Odor threshold

Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	

## 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

### 11. Toxicological information

Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).
Symptoms related to the physical	, chemical and toxicological characteristics

#### Symptom

Symptoms

Coughing and/ or wheezing.

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#### Acute toxicity

Numerical measures of toxicity No information available

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist) 237.30 mg/kg 2,320.50 mg/kg 1.50 mg/l

#### Unknown acute toxicity

50.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

79.6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Wollastonite (Ca(SiO3)) 13983-17-0	> 5000 mg/kg (Rat)	-	-
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
C.I. Pigment Blue 73 68187-40-6	-	-	= 5.3 mg/L (Rat)4 h > 5.3 mg/L (Rat)4 h
Aluminum oxide (Al2O3) 1344-28-1	> 5000 mg/kg (Rat)	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure\_

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	х
Wollastonite (Ca(SiO3)) 13983-17-0	-	Group 3	-	-
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3 A2	Group 2B Group 2A	Reasonably Anticipated	
C.I. Pigment Blue 73 68187-40-6	A3	Group 2B	Reasonably Anticipated	Х

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

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	ram) ably Anticipated to be a Human Carcinogen I Health Administration of the US Department of Labor)		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).		
Aspiration hazard	No information available.		
Other adverse effects			
Interactive effects			
12. Ecological information			
Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.		
Persistence and degradability			
Bioaccumulation	There is no data for this product.		
Other adverse effects No information available.			
13. Disposal consideration	IS		
Disposal methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.		
14. Transport information			
DOT	Not regulated		

UN number or ID number UN 3077 Packing group III

#### 15. Regulatory information

#### International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Quartz	14808-60-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Wollastonite (Ca(SiO3))	13983-17-0	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Kaolin	1332-58-7	Present	Active
C.I. Pigment Blue 73	68187-40-6	Present	Active
Aluminum oxide (Al2O3)	1344-28-1	Present	Active
Smectite-group minerals	12199-37-0	Present	Active

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Frits, chemicals - 65997-18-4	0.1
	1.0
C.I. Pigment Blue 73 - 68187-40-6	0.1
Aluminum oxide (Al2O3) - 1344-28-1	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Frits, chemicals 65997-18-4	-	Х	-	-

**CERCLA** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Quartz 14808-60-7	Х	X	Х
Frits, chemicals 65997-18-4	Х	-	Х
Wollastonite (Ca(SiO3)) 13983-17-0	Х	X	Х
Kaolin 1332-58-7	Х	X	Х
C.I. Pigment Blue 73 68187-40-6	Х	-	Х
Aluminum oxide (Al2O3) 1344-28-1	Х	X	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS Chronic Hazard	Health hazards 2 * Flamr	<b>nability</b> 0 <b>nability</b> 0 azard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbreviations and acronyms used in the safety data sheetLegendSection 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELSTELSTEL (Short Term Exposure Limit)CeilingMaximum limit value*				n Exposure Limit)
Agency for Tox U.S. Environm European Foo EPA (Environn Acute Exposur	references and sources for data used to xic Substances and Disease Registry (ATSD ental Protection Agency ChemView Databas d Safety Authority (EFSA) nental Protection Agency) re Guideline Level(s) (AEGL(s)) ental Protection Agency Federal Insecticide,	PR) Se		

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U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization 19-Dec-2022 **Revision date** 

**Revision Note** 

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**