

# SAFETY DATA SHEET

**Issue Date** 08-Jul-2019 **Revision Date** 04-Jun-2024 **Version** 3 **Page** 1 / 13

### 1. IDENTIFICATION

**Product identifier** 

Product Name CyaniVer® 3 Cyanide Reagent Powder Pillows

Other means of identification

Product Code(s) 1403969

Safety data sheet number M00051

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent. Determination of cyanide.

Uses advised against Consumer use.

**Restrictions on use** For Laboratory Use Only.

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

#### **Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

### 2. HAZARDS IDENTIFICATION

#### Classification

#### **Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

## Signal word

None

#### **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

### Other Hazards Known

Causes mild skin irritation Harmful to aquatic life

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not applicable

**Mixture** 

Chemical Family Mixture.

Chemical nature Mixture of inorganic compounds.

Percent ranges are used where confidential product information is applicable.

| Chemical name                      | CAS No.   | Percent<br>Range | HMRIC # |
|------------------------------------|-----------|------------------|---------|
| Phosphoric acid, disodium salt     | 7558-79-4 | 40 - 50%         | -       |
| 1,3-Dichloro-5,5-dimethylhydantoin | 118-52-5  | <1%              | -       |

### 4. FIRST AID MEASURES

**Description of first aid measures** 

General advice No hazards which require special first aid measures. Use first aid treatment according to the

nature of the injury.

**Inhalation** Remove to fresh air.

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** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products Phosphorus oxides.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

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**U.S. Notice**Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Flammability class Not applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

| Chemical name                      | ACGIH TLV                   | OSHA PEL                              | NIOSH                       |
|------------------------------------|-----------------------------|---------------------------------------|-----------------------------|
| 1,3-Dichloro-5,5-dimethylhydantoin | TWA: 0.2 mg/m <sup>3</sup>  | TWA: 0.2 mg/m <sup>3</sup>            | IDLH: 5 mg/m <sup>3</sup>   |
| CAS#: 118-52-5                     | STEL: 0.4 mg/m <sup>3</sup> | (vacated) TWA: 0.2 mg/m <sup>3</sup>  | TWA: 0.2 mg/m <sup>3</sup>  |
|                                    |                             | (vacated) STEL: 0.4 mg/m <sup>3</sup> | STEL: 0.4 mg/m <sup>3</sup> |

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**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.

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Wear suitable gloves. Gloves must be inspected prior to use. The selected protective **Hand Protection** 

> gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016. Barrier creams may help to protect the exposed areas of skin.

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin and body protection No special protective equipment required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state

Odor

Solid

**Appearance** 

powder

Color white

No data available Odor threshold

Remarks • Method **Property** Values

Molecular weight No data available

pН 6.8

Chlorine

Melting point / freezing point 125 °C / 257 °F

Initial boiling point and boiling range No data available

**Evaporation rate** Not applicable

Not applicable Vapor pressure

No data available Relative vapor density

Specific gravity - VALUE 1 2.50

Partition coefficient log Kow ~ 0

**Soil Organic Carbon-Water Partition** 

**Decomposition temperature** 

Coefficient

log Koc ~ 0

No data available

**Autoignition temperature** No data available

Not applicable

Dynamic viscosity

Kinematic viscosity Not applicable

Solubility(ies)

Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature_ |
|---------------------------------|------------------|-------------------------------|
| Soluble                         | > 1000 mg/L      | 25 °C / 77 °F                 |

#### Solubility in other solvents

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| Chemical Name | Solubility classification | Solubility        | Solubility Temperature   |
|---------------|---------------------------|-------------------|--------------------------|
| None reported | No information available  | No data available | No information available |

### **Other information**

**Metal Corrosivity** 

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

#### **Volatile Organic Compounds (VOC) Content**

Not applicable

| Chemical name                      | CAS No.   | Volatile organic compounds (VOC) content | CAA (Clean Air Act) |
|------------------------------------|-----------|--|---------------------|
| Phosphoric acid, disodium salt     | 7558-79-4 | No data available                        | -                   |
| 1,3-Dichloro-5,5-dimethylhydantoin | 118-52-5  | No data available                        | -                   |

#### **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density No data available

## 10. STABILITY AND REACTIVITY

## Reactivity

Not applicable.

## **Chemical stability**

Stable under normal conditions.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Possibility of hazardous reactions

None under normal processing.

### **Hazardous polymerization**

None under normal processing.

## Conditions to avoid

None known based on information supplied.

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#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

Phosphorus oxides. Chlorides.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** No known effect based on information supplied.

Eye contact No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Symptoms** No information available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met

#### Mixture

No data available.

#### **Ingredient Acute Toxicity Data**

Test data reported below.

#### **Oral Exposure Route**

| Chemical name  | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|-------------------------|---------------|---------------|-----------------------|--|
| -Dichloro-5,5-dime<br>thylhydantoin<br>(<1%)<br>CAS#: 118-52-5 | Rat<br>LD <sub>50</sub> | 542 mg/kg     | None reported | None reported         | ERMA   |

### **Dermal Exposure Route**

| Chemical name   | Endpoint<br>type           | Reported dose    | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|----------------------------|------------------|---------------|-----------------------|--|
| 1,3-Dichloro-5,5-dime<br>thylhydantoin<br>(<1%)<br>CAS#: 118-52-5 | Rabbit<br>LD <sub>50</sub> | > 20000<br>mg/kg | None reported | None reported         | GESTIS   |

### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### **Acute Toxicity Estimations (ATE)**

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

| ATEmix (oral)                 | No information available mg/kg |
|-------------------------------|--------------------------------|
| ATEmix (dermal)               | No information available       |
| ATEmix (inhalation-dust/mist) | No information available       |

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| ATEmix (inhalation-vapor) | No information available |
|---------------------------|--------------------------|
| ATEmix (inhalation-gas)   | No information available |

#### **Skin corrosion/irritation**

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

#### **Mixture**

No data available.

### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

| Chemical name   | Test method             | Species | Reported<br>dose | Exposure<br>time | Results           | Key literature<br>references and<br>sources for data |
|---|-------------------------|---------|------------------|------------------|-------------------|--|
| 1,3-Dichloro-5,5-dime<br>thylhydantoin<br>(<1%)<br>CAS#: 118-52-5 | Standard Draize<br>Test | Rabbit  | 100 mg           | 24 hours         | Corrosive to skin | RTECS  |

#### Serious eye damage/irritation

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

#### **Mixture**

No data available.

### Ingredient Eye Damage/Eye Irritation Data

No data available.

#### Respiratory or skin sensitization

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

#### Mixture

No data available.

## **Ingredient Sensitization Data**

No data available.

### STOT - single exposure

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

## Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

#### STOT - repeated exposure

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

#### **Mixture**

No data available.

## Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

### **Carcinogenicity**

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

#### **Mixture**

No data available.

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#### **Ingredient Carcinogenicity Data**

No data available.

| Chemical name                       | CAS No.   | ACGIH | IARC | NTP | OSHA |
|-------------------------------------|-----------|-------|------|-----|------|
| Phosphoric acid, disodium salt      | 7558-79-4 | -     | -    | -   | -    |
| 1,3-Dichloro-5,5-dimethylh ydantoin | 118-52-5  | -     | -    | -   | -    |

#### Legend

| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
|---|----------------|
| NTP (National Toxicology Program)                                 | Does not apply |
| OSHA  | Does not apply |

#### Germ cell mutagenicity

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

#### Mixture invitro Data

No data available.

#### Substance invitro Data

Test data reported below.

| Chemical name   | Test                         | Cell Strain | Reported dose | Exposure<br>time | Results  | Key literature references and sources for data |
|---|------------------------------|-------------|---------------|------------------|----------|--|
| 1,3-Dichloro-5,5-dime<br>thylhydantoin<br>(<1%)<br>CAS#: 118-52-5 | Morphological transformation | Rat embryo  | 6300 ng/plate | None reported    | Negative | RTECS  |

#### Mixture invivo Data

No data available.

#### Substance invivo Data

No data available.

#### Reproductive toxicity

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

#### Mixture

No data available.

#### **Ingredient Reproductive Toxicity Data**

No data available.

### **Aspiration hazard**

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

## 12. ECOLOGICAL INFORMATION

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

**Unknown aquatic toxicity** 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

#### **Aquatic Acute Toxicity**

No data available.

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### **Aquatic Chronic Toxicity**

No data available.

#### **Substance**

#### **Aquatic Acute Toxicity**

Test data reported below.

#### Fish

| Chemical name   | Exposure time | Species       | Endpoint type    | Reported dose | Key literature references and sources for data |
|---|---------------|---------------|------------------|---------------|--|
| 1,3-Dichloro-5,5-dime<br>thylhydantoin<br>(<1%)<br>CAS#: 118-52-5 | 96 hours      | None reported | LC <sub>50</sub> | 0.91 mg/L     | GESTIS   |

#### Crustacea

| Chemical name   | Exposure time | Species       | Endpoint type | Reported dose | Key literature references and sources for data |
|---|---------------|---------------|---------------|---------------|--|
| 1,3-Dichloro-5,5-dime<br>thylhydantoin<br>(<1%)<br>CAS#: 118-52-5 | 48 Hours      | None reported | EC50          | 0.5 mg/L      | GESTIS   |

#### **Aquatic Chronic Toxicity**

No data available.

### Persistence and degradability

## Mixture

No data available.

**Bioaccumulation** 

Material does not bioaccumulate

**Mixture** 

No data available.

Partition coefficient log Kow ~ 0

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient  $\log K_{oc} \sim 0$ 

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment 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.

US EPA Waste Number Not applicable

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Special instructions for disposal

If permitted by regulation. Working in small batches, dilute to 3 to 5 times the volume with cold water. Open cold water tap completely, slowly pour the material to the drain. Flush system with plenty of water. If sinks discharge to a septic system, an expert should be consulted to determine if the material will harm the system or pose a threat to the environment. Dispose of material in an E.P.A. approved hazardous waste facility.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies
DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### **International Inventories**

**EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC KECL** Complies **PICCS** Complies TCSI Complies Complies **AICS** Complies **NZIoC** 

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

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

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Acute health hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name             | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority<br>Pollutants | CWA - Hazardous<br>Substances |
|---------------------------|--------------------------------|------------------------|------------------------------|-------------------------------|
| Phosphoric acid, disodium | 5000 lb                        | -                      | -                            | X                             |
| salt                      |                                |                        |                              |                               |
| 7558-79-4                 |                                |                        |                              |                               |

#### **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

| Chemical name                  | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|--------------------------------|--------------------------|----------------|--------------------------|
| Phosphoric acid, disodium salt | 5000 lb                  | <del>-</del>   | RQ 5000 lb final RQ      |
| 7558-79-4                      |                          |                | RQ 2270 kg final RQ      |

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

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

This product may contain substances regulated by state right-to-know regulations.

| Chemical name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Phosphoric acid, disodium salt  | X          | X             | X            |
| 7558-79-4                       |            |               |              |
| 1,3-Dichloro-5,5-dimethylhydant | X          | X             | X            |
| oin                             |            |               |              |
| 118-52-5                        |            |               |              |

### **U.S. EPA Label Information**

| Chemical name                  | FIFRA    | FDA                                |
|--------------------------------|----------|------------------------------------|
| Phosphoric acid, disodium salt | 180.0910 | 21 CFR 182.1778,21 CFR 182.6290,21 |
|                                |          | CFR 182.6778,21 CFR 182.8778       |

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### **Special Comments**

None

#### **Additional information**

#### Global Automotive Declarable Substance List (GADSL)

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#### Not applicable

#### **NFPA and HMIS Classifications**

| NFPA | Health hazards - 0 | Flammability - 0 | Instability - 0      | Physical and chemical properties - |
|------|--------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 0 | Flammability - 0 | Physical hazards - 0 | Personal protection - X - I        |

### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)

ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control)

CEPA (Canadian Environmental Protection Agency)

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA EPA (Environmental Protection Agency)

ERMA ERMA (New Zealands Environmental Risk Management Authority)

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank)

INERIS INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM IPCS INCHEM (International Programme on Chemical Safety)
IUCLID IUCLID (The International Uniform Chemical Information Database)
NITE Japan National Institute of Technology and Evaluation (NITE)

NIH NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health)
LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

**TWA** 

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

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

PEEN (Pan European Ecological Network)

RTECS RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)
USDC USDC (United States Department of Commerce)

WHO (World Health Organization)

TWA (time-weighted average)

#### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| MAC | Maximum Allowable Concentration | Ceiling | Ceiling Limit Value                          |
|-----|---------------------------------|---------|--|
| X   | Listed                          | Vacated | These values have no official status. The on |

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that

STEL

reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

STEL (Short Term Exposure Limit)

regulations.

SKN\* Skin designation SKN+ Skin sensitization RSP+ Respiratory sensitization \*\* Hazard Designation

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C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

Issue Date 08-Jul-2019

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Revision Note None

#### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet** 

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