

# SAFETY DATA SHEET

# 1. Product and Company Identification

Product identifier Hu-Friedy Ceramic Coating

Other means of identification Not available

Recommended use Ceramic film coating for dental instruments

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Hu-Friedy Mfg. Co., LLC
Address 3232 N. Rockwell
Chicago, IL 60618-5982

**United States** 

**Telephone** Phone: 773.975.6100 Fax: 773.868.3599

**E-mail** Not available.

**Emergency phone number** Emergency Phone: 1-800-535-5053

Outside US: 001-352-323-3500

#### 2. Hazards Identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. May cause respiratory irritation.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Avoid breathing mist or vapor. Use only outdoors or in a

well-ventilated area. Wear eye/face protection.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor// if you feel unwell. If eye irritation persists: Get

medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

### 3. Composition/Information on Ingredients

#### **Mixtures**

Chemical nameCommon name and synonymsCAS number%Silicic acid7699-41-4100

# 4. First Aid Measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell. If symptoms develop move victim to fresh air. If

symptoms persist, obtain medical attention.

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Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give Ingestion

anything by mouth if victim is unconscious, or is convulsing.

Most important

**General information** 

symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed. treatment needed

> If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

# 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Treat for surrounding material.

None known.

Specific hazards arising from the chemical

Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting

equipment/instructions

Specific methods

In the event of fire, cool tanks with water spray.

Cool containers exposed to flames with water until well after the fire is out.

General fire hazards No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas.

## 7. Handling and Storage

Precautions for safe handling

Use good industrial hygiene practices in handling this material. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

Occupational exposure limits **Biological limit values** 

No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Not available.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

#21585 Page: 2 of 6 Issue date 02-April-2014 Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure guideline

levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and Chemical Properties

**Appearance** Transparent Physical state Solid. **Form** Powder Color White Odor Odorless **Odor threshold** Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Pour point Specific gravity Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density

Relative density Not available. Not available. Solubility(ies) **Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available.

10. Stability and Reactivity

Reactivity None known.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Stable under recommended storage conditions. **Chemical stability** 

Not available.

Not available.

Do not mix with other chemicals. Conditions to avoid

Fluorides Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Silicon dioxide.

11. Toxicological Information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation May cause irritation to the respiratory system.

No adverse effects due to skin contact are expected. Skin contact

Eye contact Causes serious eye irritation.

#21585 Page: 3 of 6 Issue date 02-April-2014 Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

**Acute toxicity** 

Components Species Test Results

Silicic acid (CAS 7699-41-4)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Rat 4500 mg/kg

Causes serious eye irritation.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Exposure minutes Not available.
Erythema value Not available.
Oedema value Not available.

Serious eye damage/eye

irritation

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema valueNot available.Recover daysNot available.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified.

Specific target organ toxicity -

single exposure

Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not classified.
Chronic effects Not classified.
Further information Not available.

12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil

Mobility in general

No data available.

No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

## 15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

No

Nο

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

United States & Puerto Rico

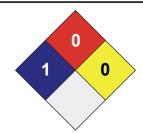
Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

#### 16. Other Information

LEGEND	
0	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Yes

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The information in the sheet was written based on the best knowledge and experience currently available.

Issue date02-April-2014Further informationNot available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

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