

Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M Rapid Multi-Enzyme Cleaner 70503

Product Identification Numbers

XH-0038-5021-7, XH-0038-5023-3, XH-0038-6215-4

1.2. Recommended use and restrictions on use

Recommended use

Professional cleaning, Automated and manual cleaning of medical and dental instruments

1.3. Supplier's details

ADDRESS:

MANUFACTURER: 3M

DIVISION: 3M People's Republic of China

Critical & Chronic Care Solutions Division 3M Center, St. Paul, MN 55144-1000, USA

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Liquid: Category 4.

Serious Eye Damage/Irritation: Category 2A.

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1A. Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Health Hazard |

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Pictograms



Hazard Statements

Combustible liquid.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

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

14% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|------------|------------|---------|
| | | |

| 3M Danid | Multi-Enzyme | Cleaner 705 | 13 |
|-----------|----------------|--------------|----|
| SWI Kabiu | viuiti-ranzvme | Cleaner /usi | IJ |

| WATER | 7732-18-5 | 50 - 70 |
|-------------------------|---------------|-----------------------|
| SODIUM XYLENE SULFONATE | 1300-72-7 | 1 - 30 Trade Secret * |
| PROPYLENE GLYCOL | 57-55-6 | < 10 Trade Secret * |
| SODIUM SULFATE | 7757-82-6 | < 10 |
| Protease | Trade Secret* | < 10 Trade Secret * |

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Trade Secret*

Trade Secret*

10035-04-8

< 10

< 10

< 1 Trade Secret *

SECTION 4: First aid measures

4.1. Description of first aid measures

CALCIUM CHLORIDE DIHYDRATE

Inhalation:

Solvent

Stabilizer

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or

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^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin contact with hot material. Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|------------------|-----------------|--------|--|---------------------|
| PROPYLENE GLYCOL | 57-55-6 | AIHA | TWA(as aerosol):10 mg/m3 | |
| Protease | Trade Secret | ACGIH | CEIL(as pure cystalline enzyme):0.00006 mg/m3 | |
| Stabilizer | Trade Secret | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| Solvent | Trade Secret | OSHA | TWA:600 mg/m3(100 ppm) | SKIN |
| Solvent | Trade Secret | ACGIH | TWA:100 ppm;STEL:150 ppm | SKIN |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

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TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade: Clear green or light blue in color

Odor threshold *No Data Available*

pH 7.5 - 9

Melting pointNot ApplicableBoiling PointNo Data Available

Flash Point >=70 °C

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data Available

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Flammable Limits(UEL)

Vapor Pressure

Not Applicable

Vapor Density

Not Applicable

Onesity

Solubility- non-water

Partition coefficient: n-octanol/ water

Autoignition temperature

Decomposition temperature

No Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

High shear and high temperature conditions

10.5. Incompatible materials

Reactive metals Strong acids Strong bases Strong oxidizing agents

10.6. Hazardous decomposition products

| Substance | <u>Condition</u> |
|------------------|------------------|
| Aldehydes | Not Specified |
| Hydrocarbons | Not Specified |
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |
| Oxides of Sulfur | Not Specified |

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

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Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|-------------------------|-------------|---------|--|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| SODIUM XYLENE SULFONATE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| SODIUM XYLENE SULFONATE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Solvent | Dermal | Rabbit | LD50 > 19,000 mg/kg |
| Solvent | Inhalation- | Rat | LC50 > 50 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Solvent | Ingestion | Rat | LD50 5,180 mg/kg |
| PROPYLENE GLYCOL | Dermal | Rabbit | LD50 20,800 mg/kg |
| PROPYLENE GLYCOL | Ingestion | Rat | LD50 22,000 mg/kg |
| Stabilizer | Dermal | Rabbit | LD50 estimated to be > 5,000 mg/kg |
| Stabilizer | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Protease | Dermal | | estimated to be > 5,000 mg/kg |
| Protease | Inhalation- | İ | estimated to be > 12.5 mg/l |
| | Dust/Mist | | |
| Protease | Ingestion | | estimated to be > 5,000 mg/kg |
| SODIUM SULFATE | Inhalation- | Rat | LC50 > 2.4 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| SODIUM SULFATE | Ingestion | Rat | LD50 > 10,000 mg/kg |
| SODIUM SULFATE | Dermal | similar | LD50 estimated to be > 5,000 mg/kg |
| | | health | |
| | | hazards | |

ATE = acute toxicity estimate

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| 3M Ranid | Multi-Fnzyme | Cleaner 70503 |
|-----------|----------------|---------------|
| SWI Kabiu | . wiuiu-Enzyme | Cleaner /0505 |

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Skin Corrosion/Irritation

| Name | Species | Value |
|------------------|---------|---------------------------|
| | | |
| Solvent | Human | No significant irritation |
| | and | |
| | animal | |
| PROPYLENE GLYCOL | Rabbit | No significant irritation |
| Stabilizer | Rabbit | No significant irritation |
| SODIUM SULFATE | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|------------------|---------|---------------------------|
| Solvent | Rabbit | Mild irritant |
| PROPYLENE GLYCOL | Rabbit | No significant irritation |
| Stabilizer | Rabbit | No significant irritation |
| SODIUM SULFATE | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|------------------|---------|----------------|
| Solvent | Human | Not classified |
| PROPYLENE GLYCOL | Human | Not classified |
| Stabilizer | Guinea | Not classified |
| | pig | |
| SODIUM SULFATE | Guinea | Not classified |
| | pig | |

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Germ Cen Mutagementy | | |
|----------------------|----------|---------------|
| Name | Route | Value |
| Solvent | In Vitro | Not mutagenic |
| PROPYLENE GLYCOL | In Vitro | Not mutagenic |
| PROPYLENE GLYCOL | In vivo | Not mutagenic |
| SODIUM SULFATE | In Vitro | Not mutagenic |

Carcinogenicity

| - Cur om ogenion j | | | |
|--------------------|-----------|----------|--|
| Name | Route | Species | Value |
| PROPYLENE GLYCOL | Dermal | Mouse | Not carcinogenic |
| PROPYLENE GLYCOL | Ingestion | Multiple | Not carcinogenic |
| | | animal | |
| | | species | |
| Stabilizer | Ingestion | Mouse | Some positive data exist, but the data are not |
| | | | sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|------------------|------------|--|-------------------------------|------------------------------|-----------------------------|
| Solvent | Inhalation | Not classified for development | Multiple animal species | NOAEL 1.82 mg/l | during organogenesi s |
| PROPYLENE GLYCOL | Ingestion | Not classified for female reproduction | Mouse | NOAEL 10,100 mg/kg/day | 2 generation |
| PROPYLENE GLYCOL | Ingestion | Not classified for male reproduction | Mouse | NOAEL 10,100 mg/kg/day | 2 generation |
| PROPYLENE GLYCOL | Ingestion | Not classified for development | Multiple | NOAEL 1,230 | during |

| | | | animal species | mg/kg/day | organogenesi s |
|----------------|-----------|--|----------------|--------------------------|--------------------------|
| Stabilizer | Ingestion | Not classified for female reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Stabilizer | Ingestion | Not classified for male reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Stabilizer | Ingestion | Not classified for development | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| SODIUM SULFATE | Dermal | Not classified for female reproduction | Rabbit | NOAEL 5,328 mg/kg/day | 65 days |
| SODIUM SULFATE | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| SODIUM SULFATE | Dermal | Not classified for male reproduction | Rabbit | NOAEL 5,328 mg/kg/day | 65 days |
| SODIUM SULFATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 4 weeks |
| SODIUM SULFATE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------------|------------|--------------------------------------|----------------|------------------------|--------------------------|----------------------|
| Solvent | Dermal | central nervous system depression | Not classified | Rabbit | NOAEL 2,850 mg/kg | |
| Solvent | Inhalation | central nervous system depression | Not classified | Rat | LOAEL 3.07 mg/l | 7 hours |
| Solvent | Ingestion | central nervous system depression | Not classified | Rat | LOAEL 5,000 mg/kg | |
| PROPYLENE GLYCOL | Ingestion | central nervous system depression | Not classified | Human and animal | NOAEL Not available | |
| SODIUM SULFATE | Inhalation | respiratory irritation | Not classified | Human and animal | Irritation Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------------|------------|---|----------------|-------------------------------|-----------------------------|----------------------|
| Solvent | Dermal | kidney and/or bladder heart endocrine system hematopoietic system liver respiratory system | Not classified | Rabbit | NOAEL 9,500 mg/kg/day | 90 days |
| Solvent | Inhalation | heart hematopoietic system liver immune system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 1.21 mg/l | 90 days |
| Solvent | Ingestion | liver heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| PROPYLENE GLYCOL | Ingestion | hematopoietic system | Not classified | Multiple animal species | NOAEL 1,370 mg/kg/day | 117 days |

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| PROPYLENE GLYCOL | Ingestion | kidney and/or bladder | Not classified | Dog | NOAEL 5,000 mg/kg/day | 104 weeks |
|------------------|------------|--|----------------|--------|------------------------------|-----------|
| Stabilizer | Inhalation | respiratory system heart liver kidney and/or bladder | Not classified | Rat | NOAEL 3.91 mg/l | 14 days |
| Stabilizer | Ingestion | endocrine system hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 10,000 mg/kg/day | 2 years |
| SODIUM SULFATE | Dermal | heart skin endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system | Not classified | Rabbit | NOAEL 5,328 mg/kg/day | 65 days |
| SODIUM SULFATE | Ingestion | hematopoietic system eyes kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 4 weeks |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 2 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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