# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 44-6754-4 | **Version number:** | 1.00 |
| **Issue Date:** | 23/09/2024 | **Supersedes date:** | Initial issue. |

This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Clinpro™ Clear Fluoride Treatment - Flavorless

**1.2. Recommended use and restrictions on use**

**Recommended use**
Dental Product

**1.3. Supplier's details**

| | |
|---|---|
| **Address:** | 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113 |
| **Telephone:** | 136 136 |
| **E Mail:** | productinfo.au@mmm.com |
| **Website:** | www.3m.com.au |

**1.4. Emergency telephone number**
EMERGENCY: 1800 097 146 (Australia only)

## SECTION 2: Hazard identification

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

**2.1. Classification of the substance or mixture**
Not applicable.

**2.2. Label elements**

**Signal word**
Not applicable.

**Symbols**
Not applicable.

**Pictograms**

Not applicable

**2.3. Other assigned/identified product hazards**
None known.

**2.4. Other hazards which do not result in classification**
None known.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Weight |
|---|---|---|
| Sodium fluoride | 7681-49-4 | 1 - 5 |
| SWEETENER | 87-99-0 | 1 - 5 |
| BUFFER | 102-71-6 | 0.1 - 1 |
| PHOSPHATE SALT | 7558-79-4 | 0.1 - 1 |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

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

**Skin contact**
Wash with soap and water. 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**

Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |

**5.3. Special protective actions for fire-fighters**
No special protective actions for fire-fighters are anticipated.

# SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

**6.2. Environmental precautions**
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and 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 prolonged or repeated skin contact. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Do not get in eyes.

**7.2. Conditions for safe storage including any incompatibilities**
No special storage requirements.

# 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 | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| BUFFER | 102-71-6 | ACGIH | TWA:5 mg/m3 | |
| BUFFER | 102-71-6 | Australia OELs | TWA(8 hours):5 mg/m3 | |
| Fluorides | 7681-49-4 | ACGIH | TWA(as F):2.5 mg/m3 | A4: Not class. as human carcin |
| Fluorides | 7681-49-4 | Australia OELs | TWA(as F)(8 hours): 2.5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
Sen: Sensitiser
Sk: Absorption through the skin may be a significant source of exposure.

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use in a well-ventilated area.

**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:
Safety glasses with side shields.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

**Skin/hand protection**
No protective gloves required. See Section 7.1 for additional information on skin protection.

**Respiratory protection**
None required.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Colour** | Colourless |
| **Odour** | Moderate Bubble gum |
| **Odour threshold** | *No data available.* |
| **pH** | *No data available.* |
| **Melting point/Freezing point** | *Not applicable.* |
| **Boiling point/Initial boiling point/Boiling range** | *No data available.* |
| **Flash point** | No flash point |
| **Evaporation rate** | *No data available.* |
| **Flammability** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Vapour pressure** | *No data available.* |
| **Vapor Density and/or Relative Vapor Density** | *No data available.* |
| **Density** | 1 g/ml |
| **Relative density** | 1 [*Ref Std:*WATER=1] |
| **Water solubility** | Appreciable |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **Kinematic Viscosity** | *No data available.* |
| **Volatile organic compounds (VOC)** | *No data available.* |
| **Percent volatile** | *No data available.* |
| **VOC less H2O & exempt solvents** | *No data available.* |

| | |
|---|---|
| **Particle Characteristics** | *Not applicable.* |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
This material is considered to be non reactive under normal use conditions

**10.2 Chemical stability**
Stable.

**10.3. Conditions to avoid**
None known.

**10.4. Possibility of hazardous reactions**
Hazardous polymerisation will not occur.

**10.5 Incompatible materials**
None known.

**10.6 Hazardous decomposition products**

| Substance | Condition |
|---|---|
| None known. | |

## 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 labelling, 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**

**Signs and Symptoms of Exposure**

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

**Inhalation**
This product may have a characteristic odour; however, no adverse health effects are anticipated.

**Skin contact**
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

**Eye 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 diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Hard tissue effects: Signs/symptoms may include colour changes in the teeth and nails, changes in development of bone, teeth or nails, weakening of the bones, and hair loss.

**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 | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| SWEETENER | Ingestion | Rat | LD50 > 4,000 mg/kg |
| SWEETENER | Dermal | similar health hazards | LD50 estimated to be > 5,000 mg/kg |
| Sodium fluoride | Dermal | Rat | LD50 > 2,000 mg/kg |
| Sodium fluoride | Inhalation-Dust/Mist | Rat | LC50 1 mg/l |
| Sodium fluoride | Ingestion | Rat | LD50 148.5 mg/kg |
| PHOSPHATE SALT | Ingestion | Rat | LD50 > 2,000 mg/kg |
| PHOSPHATE SALT | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| BUFFER | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| BUFFER | Ingestion | Rat | LD50 9,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| SWEETENER | Rabbit | No significant irritation |
| Sodium fluoride | official classification | Irritant |
| PHOSPHATE SALT | Rabbit | No significant irritation |
| BUFFER | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| SWEETENER | In vitro data | No significant irritation |
| Sodium fluoride | Rabbit | Corrosive |
| PHOSPHATE SALT | Rabbit | No significant irritation |
| BUFFER | Rabbit | Mild irritant |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Overall product | Guinea pig | Not classified |
| SWEETENER | Human | Not classified |
| PHOSPHATE SALT | similar compounds | Not classified |
| BUFFER | Human | Not classified |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| SWEETENER | In Vitro | Not mutagenic |
| SWEETENER | In vivo | Not mutagenic |
| PHOSPHATE SALT | In Vitro | Not mutagenic |
| BUFFER | In Vitro | Not mutagenic |
| BUFFER | In vivo | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| SWEETENER | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| BUFFER | Dermal | Multiple animal | Not carcinogenic |

| | | | |
|---|---|---|---|
| | | species | |
| BUFFER | 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 |
|---|---|---|---|---|---|
| SWEETENER | Ingestion | Not classified for female reproduction | Rat | NOAEL 20% | 3 generation |
| SWEETENER | Ingestion | Not classified for male reproduction | Rat | NOAEL 20% | 3 generation |
| SWEETENER | Ingestion | Not classified for development | Rabbit | NOAEL 6,770 mg/kg/day | during gestation |
| BUFFER | Ingestion | Not classified for development | Mouse | NOAEL 1,125 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| SWEETENER | Dermal | photoirritation | Not classified | Guinea pig | Irritation Positive | |
| Sodium fluoride | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| SWEETENER | Inhalation | eyes \| kidney and/or bladder \| respiratory system | Not classified | Dog | NOAEL 3.5 mg/l | 14 days |
| SWEETENER | Ingestion | kidney and/or bladder | Not classified | Mouse | NOAEL 2% | 106 weeks |
| SWEETENER | Ingestion | heart \| endocrine system \| hematopoietic system \| liver \| nervous system \| eyes \| respiratory system | Not classified | Rat | NOAEL 20,000 mg/kg/day | 13 weeks |
| Sodium fluoride | Inhalation | bone, teeth, nails, and/or hair | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Sodium fluoride | Ingestion | bone, teeth, nails, and/or hair | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL 0.33 mg/kg/day | environmental exposure |
| PHOSPHATE SALT | Ingestion | kidney and/or bladder | Some positive data exist, but the | similar compounds | NOAEL 322.88 mg/kg/day | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | data are not sufficient for classification | | | |
| BUFFER | Dermal | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,000 mg/kg/day | 2 years |
| BUFFER | Dermal | liver | Not classified | Mouse | NOAEL 4,000 mg/kg/day | 13 weeks |
| BUFFER | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 1,000 mg/kg/day | 2 years |
| BUFFER | Ingestion | liver | Not classified | Guinea pig | NOAEL 1,600 mg/kg/day | 24 weeks |

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

**Exposure Levels**
Refer Section **8.1 Control Parameters** of this Safety Data Sheet.

**Interactive Effects**
Not Determined

## SECTION 12: Ecological 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. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.**

**12.1. Toxicity**

**Acute aquatic hazard:**
Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**
Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Sodium fluoride | 7681-49-4 | Green algae | Estimated | 96 hours | EbC50 | 95 mg/l |
| Sodium fluoride | 7681-49-4 | Invertebrate | Estimated | 96 hours | EC50 | 57 mg/l |
| Sodium fluoride | 7681-49-4 | Mysid Shrimp | Estimated | 96 hours | EC50 | 23.2 mg/l |
| Sodium fluoride | 7681-49-4 | Rainbow trout | Estimated | 96 hours | LC50 | 110 mg/l |
| Sodium fluoride | 7681-49-4 | Rainbow trout | Estimated | 21 days | NOEC | 8 mg/l |
| Sodium fluoride | 7681-49-4 | Water flea | Experimental | 21 days | NOEC | 8.2 mg/l |
| Sodium fluoride | 7681-49-4 | Soil microbes | Analogous Compound | 63 days | NOEC | 106 mg/kg (Dry Weight) |
| Sodium fluoride | 7681-49-4 | Arthropod | Experimental | 126 days | NOEC | 800 mg/kg (Dry Weight) |
| Sodium fluoride | 7681-49-4 | Bacteria | Experimental | 16 hours | NOEC | 231 mg/l |
| Sodium fluoride | 7681-49-4 | Redworm | Experimental | 154 days | NOEC | 1,200 mg/kg (Dry Weight) |
| SWEETENER | 87-99-0 | Water flea | Experimental | 48 hours | LC50 | 48,500 mg/l |
| BUFFER | 102-71-6 | Activated sludge | Experimental | 3 hours | IC50 | >1,000 mg/l |
| BUFFER | 102-71-6 | Fathead minnow | Experimental | 96 hours | LC50 | 11,800 mg/l |
| BUFFER | 102-71-6 | Green algae | Experimental | 72 hours | ErC50 | 512 mg/l |
| BUFFER | 102-71-6 | Water flea | Experimental | 48 hours | EC50 | 609.98 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| BUFFER | 102-71-6 | Green algae | Experimental | 72 hours | ErC10 | 26 mg/l |
| BUFFER | 102-71-6 | Water flea | Experimental | 21 days | NOEC | 16 mg/l |
| PHOSPHATE SALT | 7558-79-4 | Activated sludge | Estimated | 3 hours | NOEC | 1,000 mg/l |
| PHOSPHATE SALT | 7558-79-4 | Green algae | Estimated | 72 hours | EC50 | >100 mg/l |
| PHOSPHATE SALT | 7558-79-4 | Rainbow trout | Estimated | 96 hours | LL50 | >100 mg/l |
| PHOSPHATE SALT | 7558-79-4 | Water flea | Estimated | 48 hours | EC50 | >100 mg/l |
| PHOSPHATE SALT | 7558-79-4 | Green algae | Estimated | 72 hours | NOEC | 100 mg/l |

### 12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Sodium fluoride | 7681-49-4 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| SWEETENER | 87-99-0 | Experimental Biodegradation | 14 days | BOD | 82 %BOD/ThOD | OECD 301C - MITI test (I) |
| BUFFER | 102-71-6 | Experimental Biodegradation | 19 days | Dissolv. Organic Carbon Deplet | 96 %removal of DOC | similar to OECD 301E |
| PHOSPHATE SALT | 7558-79-4 | Data not available-insufficient | N/A | N/A | N/A | N/A |

### 12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Sodium fluoride | 7681-49-4 | Experimental BCF - Fish | 28 days | Bioaccumulation factor | ≤ 6.4 | OECD305-Bioconcentration |
| SWEETENER | 87-99-0 | Modeled Bioconcentration | | Bioaccumulation factor | 2.3 | Catalogic™ |
| SWEETENER | 87-99-0 | Modeled Bioconcentration | | Log Kow | -2.6 | Episuite™ |
| BUFFER | 102-71-6 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | <3.9 | similar to OECD 305 |
| PHOSPHATE SALT | 7558-79-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

### 12.4. Mobility in soil
Please contact manufacturer for more details

### 12.5 Other adverse effects
No information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

## SECTION 14: Transport Information

**Australian Dangerous Goods Code (ADG) - Road/Rail Transport**
**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.
**Class/Division:** Not applicable.
**Sub Risk:** Not applicable.
**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable
**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**
**UN No.:** Not applicable.
**Proper shipping name:** Not applicable.
**Class/Division:** Not applicable.
**Sub Risk:** Not applicable.
**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG)- Marine Transport**
**UN No.:** Not applicable.
**Proper shipping name:** Not applicable.
**Class/Division:** Not applicable.
**Sub Risk:** Not applicable.
**Packing Group:** Not applicable.
**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Australian Inventory Status:**
This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

## SECTION 16: Other information

**Revision information:**
Initial issue.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.
Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at www.3m.com.au**