

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071183219

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070374819 070374835 070374876 071183201 071183227 071183276 071183284 071183292

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

070374884 070374892 070496430 070496448 070496455 070496489 070496497 070496513 071183367 071183375

# Dentsply NUPRO 5% Sodium Fluoride White Varnish

Dentsply (Australia) Pty Ltd

Chemwatch: 64-8045

Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 28/07/2016

Print Date: 27/06/2017

S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

|                               |                                                                                                                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name                  | Dentsply NUPRO 5% Sodium Fluoride White Varnish                                                                                                                                                                                                                               |
| Synonyms                      | Product codes: 130210, 130211, 130212, 130213, 130214, 130215, 130218, 130219, 130220, 130221, 130222, 130223, 130224, 130226, 130227, 130210C, 130211C, 130212C, 130213C, 130214C,, 130215C, 130218C, 130219C, 130220C, 130221C, 130222C, 130223C, 130224C, 130226C, 130227C |
| Proper shipping name          | ISOPROPANOL (ISOPROPYL ALCOHOL)                                                                                                                                                                                                                                               |
| Other means of identification | Not Available                                                                                                                                                                                                                                                                 |

### Relevant identified uses of the substance or mixture and uses advised against

|                          |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
| Relevant identified uses | For Professional Use Only. One-step application that reduces dentinal hypersensitivity. |
|--------------------------|-----------------------------------------------------------------------------------------|

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

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Registered company name | Dentsply (Australia) Pty Ltd                       |
| Address                 | 11-21 Gilby Road Mount Waverley VIC 3149 Australia |
| Telephone               | 1300 55 29 29                                      |
| Fax                     | 1300 55 31 31                                      |
| Website                 | www.dentsply.com.au                                |
| Email                   | clientservices@dentsplysirona.com                  |

### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| Emergency telephone numbers       | 1300 55 29 29 |
| Other emergency telephone numbers | Not Available |

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.**

#### CHEMWATCH HAZARD RATINGS

|              | Min | Max |
|--------------|-----|-----|
| Flammability | 3   |     |
| Toxicity     | 2   |     |
| Body Contact | 2   |     |
| Reactivity   | 2   |     |
| Chronic      | 2   |     |

0 = Minimum  
1 = Low  
2 = Moderate  
3 = High  
4 = Extreme

|                    |                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule   | Not Applicable                                                                                                                                                                                        |
| Classification [1] | Flammable Liquid Category 2, Acute Toxicity (Oral) Category 4, Eye Irritation Category 2A, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects) |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI                                                                        |

### Label elements

|                     |                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictogram(s) |   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |               |
|-------------|---------------|
| SIGNAL WORD | <b>DANGER</b> |
|-------------|---------------|

### Hazard statement(s)

|      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed.               |

Continued...

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

|        |                                            |
|--------|--------------------------------------------|
| H319   | Causes serious eye irritation.             |
| H317   | May cause an allergic skin reaction.       |
| H336   | May cause drowsiness or dizziness.         |
| AUH032 | Contact with acid liberates very toxic gas |

## Precautionary statement(s) Prevention

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.         |
| P271 | Use only outdoors or in a well-ventilated area.                            |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P240 | Ground/bond container and receiving equipment.                             |

## Precautionary statement(s) Response

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P370+P378      | In case of fire: Use alcohol resistant foam or normal protein foam for extinction.                                               |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

## Precautionary statement(s) Storage

|           |                                              |
|-----------|----------------------------------------------|
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405      | Store locked up.                             |

## Precautionary statement(s) Disposal

|      |                                                                     |
|------|---------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No     | %[weight] | Name                             |
|------------|-----------|----------------------------------|
| 72869-86-4 | 30-40     | <u>diurethane dimethacrylate</u> |
| 67-63-0    | 20-30     | <u>isopropanol</u>               |
| 7681-49-4  | 4-6       | <u>sodium fluoride</u>           |
| 13463-67-7 | <1        | <u>titanium dioxide</u>          |

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Skin Contact | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Inhalation   | <ul style="list-style-type: none"> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ingestion    | <ul style="list-style-type: none"> <li><b>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</b></li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> <p><b>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</b></p> <ul style="list-style-type: none"> <li><b>INDUCE</b> vomiting with fingers down the back of the throat, <b>ONLY IF CONSCIOUS</b>. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> </ul> <p><b>NOTE:</b> Wear a protective glove when inducing vomiting by mechanical means.</p> |

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

## SECTION 5 FIREFIGHTING MEASURES

## Extinguishing media

- ▶ Alcohol stable foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.

## Special hazards arising from the substrate or mixture

|                      |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Incompatibility | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>▶ Vapour may travel a considerable distance to source of ignition.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> </ul> <p>Combustion products include:</p> <ul style="list-style-type: none"> <li>carbon dioxide (CO<sub>2</sub>)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> <p>May emit clouds of acrid smoke</p> <p><b>WARNING:</b> Long standing in contact with air and light may result in the formation of potentially explosive peroxides.</p> |
| HAZCHEM               | •2YE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

See section 8

## Environmental precautions

See section 12

## Methods and material for containment and cleaning up

|              |                                                                                                                                                                                                                                                                                          |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <ul style="list-style-type: none"> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> </ul>   |
| Major Spills | <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow clothing wet with material to stay in contact with skin</li> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> </ul>   |
| Other information | <ul style="list-style-type: none"> <li>▶ Store below 38 deg. C.</li> <li>▶ Store in original containers in approved flame-proof area.</li> <li>▶ No smoking, naked lights, heat or ignition sources.</li> <li>▶ <b>DO NOT</b> store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>▶ Keep containers securely sealed.</li> </ul> |

## Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"> <li>▶ Packing as supplied by manufacturer.</li> <li>▶ Plastic containers may only be used if approved for flammable liquid.</li> <li>▶ Check that containers are clearly labelled and free from leaks.</li> <li>▶ For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>▶ For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>▶ For manufactured product having a viscosity of at least 250 cSt.</li> </ul> |
| Storage incompatibility | <ul style="list-style-type: none"> <li>▶ Store below 38 deg. C.</li> </ul> <p>Alcohols</p> <ul style="list-style-type: none"> <li>▶ are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                  |

Continued...

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

- ▶ reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen
- ▶ react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium
- ▶ should not be heated above 49 deg. C. when in contact with aluminium equipment
- ▶ Avoid reaction with oxidising agents

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source                       | Ingredient       | Material name     | TWA                             | STEL                             | Peak          | Notes         |
|------------------------------|------------------|-------------------|---------------------------------|----------------------------------|---------------|---------------|
| Australia Exposure Standards | isopropanol      | Isopropyl alcohol | 983 mg/m <sup>3</sup> / 400 ppm | 1230 mg/m <sup>3</sup> / 500 ppm | Not Available | Not Available |
| Australia Exposure Standards | titanium dioxide | Titanium dioxide  | 10 mg/m <sup>3</sup>            | Not Available                    | Not Available | Not Available |

## EMERGENCY LIMITS

| Ingredient                | Material name                      | TEEL-1                | TEEL-2                  | TEEL-3                  |
|---------------------------|------------------------------------|-----------------------|-------------------------|-------------------------|
| diurethane dimethacrylate | Diurethane dimethacrylate          | 120 mg/m <sup>3</sup> | 1,300 mg/m <sup>3</sup> | 7,900 mg/m <sup>3</sup> |
| isopropanol               | Isopropyl alcohol                  | 400 ppm               | 2000 ppm                | 12000 ppm               |
| sodium fluoride           | Sodium fluoride                    | 17 mg/m <sup>3</sup>  | 90 mg/m <sup>3</sup>    | 1,100 mg/m <sup>3</sup> |
| titanium dioxide          | Titanium oxide; (Titanium dioxide) | 30 mg/m <sup>3</sup>  | 330 mg/m <sup>3</sup>   | 2,000 mg/m <sup>3</sup> |

| Ingredient                | Original IDLH                     | Revised IDLH            |
|---------------------------|-----------------------------------|-------------------------|
| diurethane dimethacrylate | Not Available                     | Not Available           |
| isopropanol               | 12,000 ppm                        | 2,000 [LEL] ppm         |
| sodium fluoride           | 500 mg/m <sup>3</sup>             | 250 mg/m <sup>3</sup>   |
| titanium dioxide          | N.E. mg/m <sup>3</sup> / N.E. ppm | 5,000 mg/m <sup>3</sup> |

## Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p>                                                                                                                                                                                                                                                                                                   |
| Personal protection              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Eye and face protection          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Skin protection                  | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hands/feet protection            | <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care.</p> |
| Body protection                  | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Other protection                 | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ PVC Apron.</li> <li>▶ PVC protective suit may be required if exposure severe.</li> <li>▶ Eyewash unit.</li> <li>• Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>• For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>• Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot and shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.</li> </ul>                                                                                                                  |
| Thermal hazards                  | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Continued...

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

**"Forsberg Clothing Performance Index".**

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

Dentsply NUPRO 5% Sodium Fluoride White Varnish

| Material          | CPI      |
|-------------------|----------|
| NAT+NEOPR+NITRILE | C        |
| NATURAL RUBBER    | C        |
| NATURAL+NEOPRENE  | C        |
| NEOPRENE          | C        |
| NITRILE           | C        |
| NITRILE+PVC       | C        |
| PE/EVAL/PE        | C        |
| PVC               | C        |
| ##sodium          | fluoride |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | A-AUS                | -                    | A-PAPR-AUS / Class 1   |
| up to 50 x ES                      | -                    | A-AUS / Class 1      | -                      |
| up to 100 x ES                     | -                    | A-2                  | A-PAPR-2 ^             |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

| Appearance                                   | White opaque viscous highly flammable liquid with characteristic of flavour odour; not miscible with water. |                                         |                     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------|
| Physical state                               | Liquid                                                                                                      | Relative density (Water = 1)            | 1.04                |
| Odour                                        | Not Available                                                                                               | Partition coefficient n-octanol / water | Not Available       |
| Odour threshold                              | Not Available                                                                                               | Auto-ignition temperature (°C)          | Not Available       |
| pH (as supplied)                             | Not Applicable                                                                                              | Decomposition temperature               | Not Available       |
| Melting point / freezing point (°C)          | Not Available                                                                                               | Viscosity (cSt)                         | 1500-3500 cPs @ 25C |
| Initial boiling point and boiling range (°C) | 106                                                                                                         | Molecular weight (g/mol)                | Not Applicable      |
| Flash point (°C)                             | 16.9                                                                                                        | Taste                                   | Not Available       |
| Evaporation rate                             | Not Available                                                                                               | Explosive properties                    | Not Available       |
| Flammability                                 | HIGHLY FLAMMABLE.                                                                                           | Oxidising properties                    | Not Available       |
| Upper Explosive Limit (%)                    | 12.7 (2-propanol)                                                                                           | Surface Tension (dyn/cm or mN/m)        | Not Available       |
| Lower Explosive Limit (%)                    | 2.0 (2-propanol)                                                                                            | Volatile Component (%vol)               | Not Available       |
| Vapour pressure (kPa)                        | Not Available                                                                                               | Gas group                               | Not Available       |
| Solubility in water (g/L)                    | Immiscible                                                                                                  | pH as a solution (1%)                   | Not Available       |
| Vapour density (Air = 1)                     | Not Available                                                                                               | VOC g/L                                 | 678                 |

## SECTION 10 STABILITY AND REACTIVITY

| Reactivity                         | See section 7                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability                 | <ul style="list-style-type: none"> <li>► Polymerisation may occur at elevated temperatures.</li> <li>► Polymerisation may be accompanied by generation of heat as exotherm.</li> <li>► Process is self accelerating as heating causes more rapid polymerisation.</li> <li>► Exotherm may cause boiling with generation of acrid, toxic and flammable vapour.</li> </ul> |
| Possibility of hazardous reactions | See section 7                                                                                                                                                                                                                                                                                                                                                           |
| Conditions to avoid                | See section 7                                                                                                                                                                                                                                                                                                                                                           |
| Incompatible materials             | See section 7                                                                                                                                                                                                                                                                                                                                                           |
| Hazardous decomposition products   | See section 5                                                                                                                                                                                                                                                                                                                                                           |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhaled      | Inhalation hazard is increased at higher temperatures.<br>Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.                                                                                                                                                                                                                                                                                                                                                              |
| Ingestion    | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Skin Contact | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.<br>Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| Eye          | This material can cause eye irritation and damage in some persons.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chronic      | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                                                 |                                                      |                                       |
|-------------------------------------------------|------------------------------------------------------|---------------------------------------|
| Dentsply NUPRO 5% Sodium Fluoride White Varnish | TOXICITY                                             | IRRITATION                            |
|                                                 | Not Available                                        | Not Available                         |
| diurethane dimethacrylate                       | TOXICITY                                             | IRRITATION                            |
|                                                 | Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>          | Not Available                         |
| isopropanol                                     | TOXICITY                                             | IRRITATION                            |
|                                                 | Dermal (rabbit) LD50: 12800 mg/kg <sup>[2]</sup>     | Eye (rabbit): 10 mg - moderate        |
|                                                 | Inhalation (rat) LC50: 32000 ppm/8hr <sup>[2]</sup>  | Eye (rabbit): 100 mg - SEVERE         |
|                                                 | Oral (rat) LD50: 5000 mg/kg <sup>[2]</sup>           | Eye (rabbit): 100mg/24hr-moderate     |
| sodium fluoride                                 | TOXICITY                                             | IRRITATION                            |
|                                                 | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>        | Eye (rabbit): 20 mg/24h-moderate      |
|                                                 | Oral (rat) LD50: >25<2000 mg/kg <sup>[1]</sup>       |                                       |
| titanium dioxide                                | TOXICITY                                             | IRRITATION                            |
|                                                 | Inhalation (rat) LC50: >2.28 mg/l/4hr <sup>[1]</sup> | Skin (human): 0.3 mg /3D (int)-mild * |
|                                                 | Inhalation (rat) LC50: >3.56 mg/l/4hr <sup>[1]</sup> |                                       |
|                                                 | Inhalation (rat) LC50: >6.82 mg/l/4hr <sup>[1]</sup> |                                       |
|                                                 | Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>          |                                       |

**Legend:**

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIURETHANE DIMETHACRYLATE                   | The following information refers to contact allergens as a group and may not be specific to this product.<br>Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.<br>UV (ultraviolet) / EB (electron beam) acrylates are generally of low toxicity. UV/EB acrylates are divided into two groups the "stenomeric" and "eurymeric" acrylates. Stenomeric acrylates are usually more hazardous than the eurymeric substances.<br>Where no "official" classification for acrylates and methacrylates exists, there have been cautious attempts to create classifications in the absence of contrary evidence. For example<br>Monoalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53<br>Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38<br>* Possible carcinogen; possible sensitizer; possible irreversible effects * Polysciences MSDS |
| ISOPROPANOL                                 | Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TITANIUM DIOXIDE                            | Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier.<br><br><b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.<br>* IUCLID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DIURETHANE DIMETHACRYLATE & SODIUM FLUORIDE | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.                                                                                                                                                                                                                                                                                                                                                                                                           |
| ISOPROPANOL & TITANIUM DIOXIDE              | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ISOPROPANOL & SODIUM FLUORIDE               | The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited in animal testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

|                                               |                                                                                                                                                   |                                 |   |  |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|--|
| <b>SODIUM FLUORIDE &amp; TITANIUM DIOXIDE</b> | The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. |                                 |   |  |
| <b>Acute Toxicity</b>                         | ✓                                                                                                                                                 | <b>Carcinogenicity</b>          | ⊘ |  |
| <b>Skin Irritation/Corrosion</b>              | ⊘                                                                                                                                                 | <b>Reproductivity</b>           | ⊘ |  |
| <b>Serious Eye Damage/Irritation</b>          | ✓                                                                                                                                                 | <b>STOT - Single Exposure</b>   | ✓ |  |
| <b>Respiratory or Skin sensitisation</b>      | ✓                                                                                                                                                 | <b>STOT - Repeated Exposure</b> | ⊘ |  |
| <b>Mutagenicity</b>                           | ⊘                                                                                                                                                 | <b>Aspiration Hazard</b>        | ⊘ |  |

**Legend:** ✗ – Data available but does not fill the criteria for classification  
 ✓ – Data available to make classification  
 ⊘ – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

|                                                        |                 |                           |                               |                |                |
|--------------------------------------------------------|-----------------|---------------------------|-------------------------------|----------------|----------------|
| <b>Dentsply NUPRO 5% Sodium Fluoride White Varnish</b> | <b>ENDPOINT</b> | <b>TEST DURATION (HR)</b> | <b>SPECIES</b>                | <b>VALUE</b>   | <b>SOURCE</b>  |
|                                                        | Not Applicable  | Not Applicable            | Not Applicable                | Not Applicable | Not Applicable |
| <b>diurethane dimethacrylate</b>                       | <b>ENDPOINT</b> | <b>TEST DURATION (HR)</b> | <b>SPECIES</b>                | <b>VALUE</b>   | <b>SOURCE</b>  |
|                                                        | EC50            | 48                        | Crustacea                     | >1.2mg/L       | 2              |
|                                                        | EC50            | 72                        | Algae or other aquatic plants | >0.68mg/L      | 2              |
|                                                        | NOEC            | 72                        | Algae or other aquatic plants | >0.21mg/L      | 2              |
| <b>isopropanol</b>                                     | <b>ENDPOINT</b> | <b>TEST DURATION (HR)</b> | <b>SPECIES</b>                | <b>VALUE</b>   | <b>SOURCE</b>  |
|                                                        | LC50            | 96                        | Fish                          | 183.844mg/L    | 3              |
|                                                        | EC50            | 48                        | Crustacea                     | 12500mg/L      | 5              |
|                                                        | EC50            | 96                        | Algae or other aquatic plants | 993.232mg/L    | 3              |
|                                                        | EC29            | 504                       | Crustacea                     | ≈100mg/L       | 1              |
|                                                        | NOEC            | 5760                      | Fish                          | 0.02mg/L       | 4              |
| <b>sodium fluoride</b>                                 | <b>ENDPOINT</b> | <b>TEST DURATION (HR)</b> | <b>SPECIES</b>                | <b>VALUE</b>   | <b>SOURCE</b>  |
|                                                        | LC50            | 96                        | Fish                          | 51mg/L         | 2              |
|                                                        | EC50            | 48                        | Crustacea                     | 58mg/L         | 4              |
|                                                        | EC50            | 96                        | Algae or other aquatic plants | 181mg/L        | 1              |
|                                                        | BCF             | 240                       | Fish                          | 5mg/L          | 4              |
|                                                        | NOEC            | 504                       | Fish                          | 4mg/L          | 2              |
| <b>titanium dioxide</b>                                | <b>ENDPOINT</b> | <b>TEST DURATION (HR)</b> | <b>SPECIES</b>                | <b>VALUE</b>   | <b>SOURCE</b>  |
|                                                        | LC50            | 96                        | Fish                          | 9.214mg/L      | 3              |
|                                                        | EC50            | 48                        | Crustacea                     | >10mg/L        | 2              |
|                                                        | EC50            | 72                        | Algae or other aquatic plants | 5.83mg/L       | 4              |
|                                                        | EC20            | 72                        | Algae or other aquatic plants | 1.81mg/L       | 4              |
|                                                        | NOEC            | 336                       | Fish                          | 0.089mg/L      | 4              |

**Legend:** Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

**DO NOT** discharge into sewer or waterways.

## Persistence and degradability

| Ingredient       | Persistence: Water/Soil   | Persistence: Air         |
|------------------|---------------------------|--------------------------|
| isopropanol      | LOW (Half-life = 14 days) | LOW (Half-life = 3 days) |
| sodium fluoride  | LOW                       | LOW                      |
| titanium dioxide | HIGH                      | HIGH                     |

## Bioaccumulative potential

| Ingredient       | Bioaccumulation     |
|------------------|---------------------|
| isopropanol      | LOW (LogKOW = 0.05) |
| sodium fluoride  | LOW (BCF = 6.4)     |
| titanium dioxide | LOW (BCF = 10)      |

Continued...

Mobility in soil

|                  |                   |
|------------------|-------------------|
| Ingredient       | Mobility          |
| isopropanol      | HIGH (KOC = 1.06) |
| sodium fluoride  | LOW (KOC = 14.3)  |
| titanium dioxide | LOW (KOC = 23.74) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Product / Packaging disposal</p> | <ul style="list-style-type: none"><li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li><li>▶ It may be necessary to collect all wash water for treatment before disposal.</li><li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li><li>▶ Where in doubt contact the responsible authority.</li><li>▶ Recycle wherever possible.</li><li>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li><li>▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li><li>▶ Decontaminate empty containers.</li></ul> |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 14 TRANSPORT INFORMATION

Labels Required

|                                                                                       |                  |    |         |      |
|---------------------------------------------------------------------------------------|------------------|----|---------|------|
|  | Marine Pollutant | NO | HAZCHEM | •2YE |
|---------------------------------------------------------------------------------------|------------------|----|---------|------|

Land transport (ADG)

|                              |                    |                         |                                 |
|------------------------------|--------------------|-------------------------|---------------------------------|
| UN number                    | 1219               | UN proper shipping name | ISOPROPANOL (ISOPROPYL ALCOHOL) |
| Transport hazard class(es)   | Class 3            | Subrisk                 | Not Applicable                  |
| Packing group                | II                 | Environmental hazard    | Not Applicable                  |
| Special precautions for user | Special provisions | Limited quantity        | 1 L                             |

Air transport (ICAO-IATA / DGR)

|                              |                    |                                                           |                                |
|------------------------------|--------------------|-----------------------------------------------------------|--------------------------------|
| UN number                    | 1219               | UN proper shipping name                                   | Isopropanol; Isopropyl alcohol |
| Transport hazard class(es)   | ICAO/IATA Class 3  | ICAO / IATA Subrisk                                       | Not Applicable                 |
| Packing group                | II                 | Environmental hazard                                      | Not Applicable                 |
| Special precautions for user | Special provisions | Cargo Only Packing Instructions                           | 364                            |
|                              |                    | Cargo Only Maximum Qty / Pack                             | 60 L                           |
|                              |                    | Passenger and Cargo Packing Instructions                  | 353                            |
|                              |                    | Passenger and Cargo Maximum Qty / Pack                    | 5 L                            |
|                              |                    | Passenger and Cargo Limited Quantity Packing Instructions | Y341                           |
|                              |                    | Passenger and Cargo Limited Maximum Qty / Pack            | 1 L                            |

Sea transport (IMDG-Code / GGVSee)

|           |      |                         |                                 |
|-----------|------|-------------------------|---------------------------------|
| UN number | 1219 | UN proper shipping name | ISOPROPANOL (ISOPROPYL ALCOHOL) |
|-----------|------|-------------------------|---------------------------------|

## Dentsply NUPRO 5% Sodium Fluoride White Varnish

|                              |                    |                |
|------------------------------|--------------------|----------------|
| Transport hazard class(es)   | IMDG Class         | 3              |
|                              | IMDG Subrisk       | Not Applicable |
| Packing group                | II                 |                |
| Environmental hazard         | Not Applicable     |                |
| Special precautions for user | EMS Number         | F-E , S-D      |
|                              | Special provisions | Not Applicable |
|                              | Limited Quantities | 1 L            |

## Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

## DIURETHANE DIMETHACRYLATE(72869-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

## ISOPROPANOL(67-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

## SODIUM FLUORIDE(7681-49-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

## TITANIUM DIOXIDE(13463-67-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

| National Inventory            | Status                                                                                                                                                                                   |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AICS              | Y                                                                                                                                                                                        |
| Canada - DSL                  | N (diurethane dimethacrylate)                                                                                                                                                            |
| Canada - NDSL                 | N (sodium fluoride; isopropanol)                                                                                                                                                         |
| China - IECSC                 | Y                                                                                                                                                                                        |
| Europe - EINEC / ELINCS / NLP | Y                                                                                                                                                                                        |
| Japan - ENCS                  | N (diurethane dimethacrylate; sodium fluoride; isopropanol)                                                                                                                              |
| Korea - KECI                  | Y                                                                                                                                                                                        |
| New Zealand - NZIoC           | Y                                                                                                                                                                                        |
| Philippines - PICCS           | Y                                                                                                                                                                                        |
| USA - TSCA                    | Y                                                                                                                                                                                        |
| <b>Legend:</b>                | Y = All ingredients are on the inventory<br>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

## SECTION 16 OTHER INFORMATION

## Other information

## Ingredients with multiple cas numbers

| Name                      | CAS No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| diurethane dimethacrylate | 72869-86-4, 41137-60-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| titanium dioxide          | 13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9 |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average

PC — STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

**Dentsply NUPRO 5% Sodium Fluoride White Varnish**

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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