SAFETY DATA SHEETS

This SDS packet was issued with item:

070374819

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

070374835 070374876 071183201 071183219 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.
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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		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	2		3 = High
Chronic	2		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

DANGER

Hazard statement(s)		
H225	Highly flammable liquid and vapour.	
H302	Harmful if swallowed.	

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VEISIOIT NO. 2.1.1.1		Dentsply NUPRO 5% Sodium Fluoride White Varnish	_	Fillit Date: 27/00/2017
	1			

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	P370+P378 In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	
P302+P352	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	diurethane dimethacrylate
67-63-0	20-30	isopropanol
7681-49-4	4-6	sodium fluoride
13463-67-7	<1	titanium dioxide

SECTION 4 FIRST AID MEASURES

Description of first aid me	easures
Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. 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. 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. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.
ingestion	

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed

▶ INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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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

opecial nazards arising from the substrate of 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	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. 		
Fire/Explosion Hazard	Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. Combustion products include: , carbon dioxide (CO2)		
	other pyrolysis products typical of burning organic material. May emit clouds of acrid smoke WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.		
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	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe ha	ındling
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Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
Other information	 Store below 38 deg. C. Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Keep containers securely sealed.

Conditions for eafo storage including any incompatibilities

Conditions for safe storage, including any incompatibilities			
Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. 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. For materials with a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product having a viscosity of at least 250 cSt. 		
Storage incompatibility	 ► Store below 38 deg. C. Alcohols ► are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents. 		

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- ▶ 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/m3 / 400 ppm	1230 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
diurethane dimethacrylate	Diurethane dimethacrylate	120 mg/m3	1,300 mg/m3	7,900 mg/m3
isopropanol	Isopropyl alcohol	400 ppm	2000 ppm	12000 ppm
sodium fluoride	Sodium fluoride	17 mg/m3	90 mg/m3	1,100 mg/m3
titanium dioxide	Titanium oxide; (Titanium dioxide)	30 mg/m3	330 mg/m3	2,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
diurethane dimethacrylate	Not Available	Not Available
isopropanol	12,000 ppm	2,000 [LEL] ppm
sodium fluoride	500 mg/m3	250 mg/m3
titanium dioxide	N.E. mg/m3 / N.E. ppm	5,000 mg/m3

Exposure controls

Appropriate engineering controls

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.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

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.

Personal protection









Eye and face protection

- Safety glasses with side shields
- Chemical goggles
- 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.

Skin protection

See Hand protection below

NOTE:

- ► 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.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

Hands/feet protection

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.

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.

Personal hygiene is a key element of effective hand care

Body protection

See Other protection below

- ▶ Overalls.
- ► PVC Apron.
 - PVC protective suit may be required if exposure severe. Eyewash unit.

Other protection

- · Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- 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 an shall dissipate static
 electricity from the body to reduce the possibility of ignition of volatile compounds.

Thermal hazards

s 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)

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"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	СРІ
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVC	С
##sodium	fluoride

^{*} CPI - Chemwatch Performance Index

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 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(SO2), G = Agricultural chemicals, K = Ammonia(NH3), 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 characteri-	stic 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	 Polymerisation may occur at elevated temperatures. Polymerisation may be accompanied by generation of heat as exotherm. Process is self accelerating as heating causes more rapid polymerisation. Exotherm may cause boiling with generation of acrid, toxic and flammable vapour.
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

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

^{*} 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.

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Inhaled	Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with co slowing of reflexes, fatigue and inco-ordination.	ughing and nausea, central nervous depression with headache and dizziness,
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indi damage to the health of the individual.	cate that ingestion of less than 150 gram may be fatal or may produce serious
Skin Contact	scaling and thickening of the skin. Repeated exposure may cause skin cracking, flaking or drying following non Open cuts, abraded or irritated skin should not be exposed to this material	and may produce on contact skin redness, swelling, the production of vesicles, mal handling and use. may produce systemic injury with harmful effects. Examine the skin prior to the use
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.
Deutenh NURDO 50/		
Dentsply NUPRO 5% Sodium Fluoride White	TOXICITY	IRRITATION
Varnish	Not Available	Not Available
	TOXICITY	IRRITATION
diurethane dimethacrylate	Oral (rat) LD50: >5000 mg/kg ^[1]	Not Available
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: 12800 mg/kg ^[2]	Eye (rabbit): 10 mg - moderate
isopropanol	Inhalation (rat) LC50: 32000 ppm/8hr ^[2]	Eye (rabbit): 100 mg - SEVERE
	Oral (rat) LD50: 5000 mg/kg ^[2]	Eye (rabbit): 100mg/24hr-moderate
		Skin (rabbit): 500 mg - mild
	TOXICITY	IRRITATION
andium fluorida	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 20 mg/24h-moderate
sodium fluoride		Lyc (rabbit). 20 mg/24n moderate
	Oral (rat) LD50: >25<2000 mg/kg> ^[1]	1
	тохісіту	IRRITATION
	Inhalation (rat) LC50: >2.28 mg/l/4hr ^[1]	Skin (human): 0.3 mg /3D (int)-mild *
titanium dioxide	Inhalation (rat) LC50: >3.56 mg/l/4hr ^[1]	
	Inhalation (rat) LC50: >6.82 mg/l/4hr ^[1]	
	Oral (rat) LD50: >2000 mg/kg ^[1]	
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicit extracted from RTECS - Register of Toxic Effect of chemical Substances	y 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data
DIURETHANE DIMETHACRYLATE	a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other reactions. UV (ultraviolet) / EB (electron beam) acrylates are generally of low toxicity. Use acrylates. Stenomeric acrylates are usually more hazardous than the euryments.	ly as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune JV/EB acrylates are divided into two groups the "stenomeric" and "eurymeric" eric substances. have been cautious attempts to create classifications in the absence of contrary and R51/53 6/37/38
ISOPROPANOL	Isopropanol is irritating to the eyes, nose and throat but generally not to the s nervous system and drowsiness. Few have reported skin irritation. It can be a	kin. Prolonged high dose exposure may also produce depression of the central absorbed from the skin or when inhaled.
TITANIUM DIOXIDE	· ·	en inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of ends on the size of the particle. It penetrated only the outermost layer of the skin, Possibly Carcinogenic to Humans.
DIURETHANE DIMETHACRYLATE & SODIUM FLUORIDE		clude a reversible airflow pattern on lung function tests, moderate to severe
ISOPROPANOL & TITANIUM DIOXIDE	The material may cause skin irritation after prolonged or repeated exposure scaling and thickening of the skin.	and may produce on contact skin redness, swelling, the production of vesicles,
ISOPROPANOL & SODIUM FLUORIDE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.	

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SODIUM FLUORIDE & TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to ir	nflammation. Repeated or prolonged	exposure to irritants may produce conjunctivitis.
	_		
Acute Toxicity	*	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	~
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

X - Data available but does not fill the criteria for classification Legend: ✓ – Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Dentsply NUPRO 5%	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Sodium Fluoride White Varnish	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Parada and Parada and Jaka	EC50	48	Crustacea	>1.2mg/L	2
diurethane dimethacrylate	EC50	72	Algae or other aquatic plants	>0.68mg/L	2
	NOEC	72	Algae or other aquatic plants	>0.21mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	183.844mg/L	3
	EC50	48	Crustacea	12500mg/L	5
isopropanol	EC50	96	Algae or other aquatic plants	993.232mg/L	3
	EC29	504	Crustacea	=100mg/L	1
	NOEC	5760	Fish	0.02mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	51mg/L	2
and Providence Co.	EC50	48	Crustacea	58mg/L	4
sodium fluoride	EC50	96	Algae or other aquatic plants	181mg/L	1
	BCF	240	Fish	5mg/L	4
	NOEC	504	Fish	4mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	9.214mg/L	3
	EC50	48	Crustacea	>10mg/L	2
titanium dioxide	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)

Dentsply NUPRO 5% Sodium Fluoride White Varnish

lios ni yillidoM

TOM (KOC = 53:14)	əbixoib muinstit
FOM (KOC = 14:3)	spinoult muibos
HICH (KOC = 1.06)	lonsqorqosi
Mobility	Ingredient

SECTION 13 DISPOSAL CONSIDERATIONS

Issoqsib Product / Packaging

Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.

Decontaminate empty containers.

- Recycle wherever possible.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after can be identified. • Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
- admixture with suitable combustible material).

SECTION 14 TRANSPORT INFORMATION

Labels Required



€2YE	HAZCHEM
ON	Marine Pollutant

(and transport (ADG)

Precautions for user Limited quantity 1 L	Lunianda
Special provisions Not Applicable	lei2en2
Mot Applicable Arsard hazard hazard	uЭ
Packing group	
port hazard class(es) Subrisk Not Applicable	Transp
Class 3	
roper shipping name ISOPROPAUOL (ISOPROPYL ALCOHOL)	NU pro
91219 admun MU	
(DAN) Indent	דפוות נופו

Air transport (ICAO-IATA / DGR)

aumu Guiddina iadaid na	1001/ 7011/ 1011 1001	(7011007).71.10		
UN proper shipping name	ISOPROPANOL (ISOPRI	OPVI ALCOHOL)		
number NU	1519			
Sea transport (IMDG-Code	(99SVSD)			
	Passenger and Cargo L	Jack Maximum Qty / Pack	١٦	
	Passenger and Cargo I	Limited Quantity Packing Instructions	Y341	
	Passenger and Cargo M	Maximum Qty / Pack	79	
Special precautions for user	Passenger and Cargo	Packing Instructions	323	
	Cargo Only Maximum C	ζty / Pack	7 09	
	Cargo Only Packing Instructions		198	
	Special provisions	 	081A	
Environmental hazard	Not Applicable			
Packing group	II			
	ERG Code	3F		
Transport hazard class(es)	ICAO / IATA Subrisk	eldsoilgqA toM		
	ICAO/IATA Class	3		
UN proper shipping name	lsopropanol; lsopropyl alc	lodo		
NM number	1219			

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Dentsply NUPRO 5% Sodium Fluoride White Varnish

Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-D Not Applicable 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 Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

\parallel SODIUM FLUORIDE(7681-49-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	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	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	
Australia Inventory of Chemical Substances (AICS)	Monographs	

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	N (diurethane dimethacrylate)
Canada - NDSL	N (sodium fluoride; isopropanol)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (diurethane dimethacrylate; sodium fluoride; isopropanol)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory 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

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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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