SAFETY DATA SHEETS

This SDS packet was issued with item: 071709187

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

071708908 071708916

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).

071707587 071707595 071707603 071707611 071707629 071707637 071707645 071707652 071707660 071707678 071708221 071708239 071708247 071708254 071708262 071708270 071708288 071708296 071708304 071708312 071708320 071708338 071708346 071708353 071708361 071708379 071708387 071708395 071708403 071708411 071708429 071708437 071708445 071708452 071708460 071708478 071708486 071708494 071708502 071708510 071708528 071708536 071708924 071708932 071708940 071708957 071708965 071708973 071708981 071708999 071709005 071709013 071709021 071709153 071709161 071709179 071709195 071709203 071709211 071709229 071709245 071709252 071709260 071709278 071709286 071709294 071709302 071709310 071709328 071709336 071709344 071709351 071709369 071709377 071709534 071709542 071709559 071709567 071709575 071709583 071709591 071709609 071709617 071709625 071709633 071709641 071709559 071709666 071709674 071709682 071709690 071709708 071709716 071709724 071709732 071709740 071709757 071709765 071709773 071709781 071709799 071709807 071709815 071709823 071709831 071709849

Dentsply EsthetX HD

Dentsply (Australia)

Chemwatch: 22-5368

Version No: 21.1.1 Material Safety Data Sheet according to NOHSC and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: 01/01/2013 Print Date: 15/10/2014 Initial Date: Not Available S.Local.AUS.EN

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

Product Identifier

Product name	Dentsply EsthetX HD
Chemical Name	Not Applicable
Synonyms	EsthetX HD, EsthetX HD High Definition Micro Matrix Restorative
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Available
CAS number	Not Applicable

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

Relevant identified	Light curing composite/dental filling material
uses	

Details of the manufacturer/importer

Registered company name	Dentsply (Australia)
Address	11-21 Gilby Road Mount Waverley 3149 VIC Australia
Telephone	+61 3 9538 8240
Fax	+61 3 9538 8260
Website	www.dentsply.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	1300 552 929 (Mon-Fri 9am-5pm)
Other emergency telephone numbers	1300 552 929 (Mon-Fri 9am-5pm)

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0	1	
Toxicity	2	1	0 = Minimum
Body Contact	2	1	1 = Low
Reactivity	1 📃	1	2 = Moderate 3 = High
Chronic	3		4 = Extreme

Poisons Schedule	Not Applicable	
	R20/22 Harmful by inhalation and if swallowed.	
Risk Phrases ^[1]	R36/38 Irritating to eyes and skin.	
	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	

Dontonly	Ecthoty	ЦП
Dentsply	ESUIGIV	пυ

R43	May cause SENSITISATION by skin contact.
R40(3)	Limited evidence of a carcinogenic effect.
R61(1)	May cause harm to the unborn child.
R33	Danger of cumulative effects.
R62(3)	Possible risk of impaired fertility.
R48/20 /21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex

Legend:



Relevant risk statements are found in section 2

Indication(s) of danger

T, Xn, N

VI

SAFETY ADVICE

S01Keep locked up.S07Keep container tightly closed.S09Keep container in a well ventilated place.S13Keep away from food, drink and animal feeding stuffs.S20When using do not eat or drink.S21Avoid contact with eyes.S25Avoid contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.S28After contact with skin, wash immediately with plenty of waterS29Do not empty into drains.S29Do not empty into drains.S36Wear suitable protective clothing.S37Wear suitable gloves.
SupervisedSopKeep container in a well ventilated place.S13Keep away from food, drink and animal feeding stuffs.S20When using do not eat or drink.S25Avoid contact with eyes.S26In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.S28After contact with skin, wash immediately with plenty of waterS29Do not empty into drains.S35This material and its container must be disposed of in a safe way.S36Wear suitable protective clothing.S37Wear suitable gloves.
S13Keep away from food, drink and animal feeding stuffs.S20When using do not eat or drink.S25Avoid contact with eyes.In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.S26In case of contact with skin, wash immediately with plenty of waterS29Do not empty into drains.S35This material and its container must be disposed of in a safe way.S36Wear suitable protective clothing.S37Wear suitable gloves.
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S36 Wear suitable protective clothing. S37 Wear suitable gloves.
S37 Wear suitable gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S39 Wear eye/face protection.
S40 To clean the floor and all objects contaminated by this material, use water and detergent.
S45 In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible).
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well ventilated areas.
S53 Avoid exposure - obtain special instructions before use.
S56 Dispose of this material and its container at hazardous or special waste collection point.
S57 Use appropriate container to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S64 If swallowed, rinse mouth with water (only if the person is conscious).

Other hazards

May produce discomfort of the respiratory system*.
Possible respiratory sensitizer*.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
65997-17-3	<50	glass fibres loose - special purpose
65997-18-4	<30	frits chemicals, lead containing
109-16-0	<20	triethylene glycol dimethacrylate
Not Available	<10	urethane modified bis-GMA dimethacrylate
68611-44-9	<5	silica amorphous, fumed
7631-86-9	<5	silica amorphous

SECTION 4 FIRST AID MEASURES

Description of first aid measures

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	 Gently brush or vacuum off adherent fibres. Wash affected areas thoroughly with water (and soap if available). Seek medical attention if irritation exists and persists.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear breathing passages. Ask patient to rinse mouth with water but to not drink water. Seek immediate medical attention.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Mineral fibres are a mechanical irritant, and are not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary. Lung function should be monitored, periodically, in individuals chronically exposed to fibres in an occupational setting

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

 Alcohol stable foam. Dry chemical powder. 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 ma result 		
Advice for firefighters	5		
Fire Fighting	 When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles. When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. 		
Fire/Explosion Hazard	Mineral fibres exhibit low thermal conductivity, low heat storage, and thermal shock resistanceIn fire situations they withstand high temperatures without burningThermal decomposition is associated with polymeric binders and facings which may be present in the articleThe packaging, facings and resin may smoulder, decompose or burn.		

SECTION 6 ACCIDENTAL RELEASE MEASURES

Dentsply EsthetX HD

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course.
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling DO NOT eat, drink or smoke.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure	silica	Silica - Amorphous Fumed silica (respirable dust) / Fumed silica (respirable dust)	2	Not	Not	Not
Standards	amorphous		mg/m3	Available	Available	Available

EMERGENCY LIMITS

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Dentsply EsthetX HD	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
glass fibres loose - special purpose	Not Available	Not Available
frits chemicals, lead containing	700 mg/m3	100 mg/m3
triethylene glycol dimethacrylate	Not Available	Not Available
urethane modified bis-GMA dimethacrylate	Not Available	Not Available
silica amorphous, fumed	N.E. mg/m3 / N.E. ppm	3,000 mg/m3
silica amorphous	N.E. mg/m3 / N.E. ppm	3,000 mg/m3

Exposure controls

Appropriate

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Dentsply EsthetX HD

engineering controls	 Where possible, enclose sources of dust and provide dust extraction at the source. Restrict access to work areas involved in handling man-made mineral fibres and ensure that adequate training, in the handling of such materials, has been provided. Use operating procedures which limit the generation of dusts. When working with unbonded fibres, local exhaust ventilation is generally a requirement.
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
Hands/feet protection	 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. Wear protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	 Disposable coveralls or long sleeve, loose fitting protective clothing, e.g. overalls (launder clothing separately from other clothing). When working above head height, use head covering. Minimise dust generation by using sharp hand cutting tools if possible. Powered tools (e.g. saws etc.) should only be used if fitted with dust extraction and containment equipment.
Thermal hazards	Not Available

Respiratory protection

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

CPI

Dentsply EsthetX HD Not Available

Material

* 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Various shades of viscous paste with a characteristic sweet acrylic odour; does not mix with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	2.1
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)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available

Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	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 Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure.

Dentsply EsthetX HD	ΤΟΧΙΟΙΤΥ	IRRITATION
	Not Available	Not Available
glass fibres loose -	ΤΟΧΙCΙΤΥ	IRRITATION
special purpose	Not Available	Not Available
frits chemicals, lead	ΤΟΧΙCΙΤΥ	IRRITATION
containing	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
triethylene glycol	Oral (mouse) LD50: 10750 mg/kg	
dimethacrylate	Oral (rat) LD50: 10837 mg/kg	
	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
silica amorphous, fumed	Oral (rat) LD50: >5000 mg/kg	[Wacker]
Tunicu	Not Available	Not Available
	TOXICITY	IRRITATION
silica amorphous	Dermal (rabbit) LD50: >5000 mg/kg *	* [Grace]
	Inhalation (rat) LC50: >0.139 mg/l/14h *	Eye (rabbit): non-irritating *
	Oral (rat) LD50: 3160 mg/kg	Skin (rabbit): non-irritating *
	Not Available	Not Available

* Value obtained from manufacturer's msds

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances

GLASS FIBRES LOOSE - SPECIAL PURPOSE	The substance is classified by IARC as Group For fibre glass wool: In October 2001, IARC cla carcinogenicity to humans." The 2001 decision association between inhalation exposure to dus a reversal of the IARC finding in 1987 of a Grou studies in which animals were injected with larg IARC reclassification or the most current fibre glass health research; at this time, both agenci studies. MMMF are manufactured to definite fibre diame small particles not needles [FARIMA]. NOTE: C carcinogen or neoplastic agent by RTECS crite	assified fiber glass wool as 0 was based on current humar st from fibre glass wool and f up 2B designation (possibly ge quantities of fiber glass. N es continue to classify glass eters and cannot split along f Carcinogenic by RTECS crite	Group 3, "not classifiable as to its n and animal research that shows no the development of respiratory disease. This is carcinogenic to humans) based on earlier NTP and ACGIH have not yet reviewed the wool based on the earlier animal injection their length rather they break across and form
FRITS CHEMICALS, LEAD CONTAINING	No significant acute toxicological data identified in literature search.		
SILICA AMORPHOUS	Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]		
Dentsply EsthetX HD, TRIETHYLENE GLYCOL DIMETHACRYLATE	The following information refers to contact allergens as a group and may not be specific to this product. 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.		
SILICA AMORPHOUS, FUMED, SILICA AMORPHOUS	For silica amorphous: When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals.		
Acute Toxicity	¥	Carcinogenicity	*
Skin Irritation/Corrosion	*	Reproductivity	~
	Obtained by Clabel	Sofoty Management	Continued

Serious Eye Damage/Irritation	~	STOT - Single Exposure	0
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	*
Mutagenicity	0	Aspiration Hazard	0
			uired to make classification available ilable but does not fill the criteria for classification

 \propto – Data available but does not fill the criteria for classifi \otimes – Data Not Available to make classification

CMR STATUS

Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

DO NOT discharge into sewer or waterways.

Prevent, by any means available, spillage from entering drains or water courses.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
triethylene glycol dimethacrylate	HIGH	HIGH
silica amorphous	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
triethylene glycol dimethacrylate	LOW (BCF = 5.592)
silica amorphous	LOW (BCF = 3.162)

Mobility in soil

Ingredient	Mobility
triethylene glycol dimethacrylate	LOW (KOC = 10)
silica amorphous	LOW (KOC = 23.74)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible.
Otherwise:
• If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to
store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Dentsply EsthetX HD

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

glass fibres loose - special purpose(65997-17-3) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"	
frits chemicals, lead containing(65997-18-4) is found on the following regulatory lists	'Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists"	
triethylene glycol dimethacrylate(109-16-0) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)"	
silica amorphous, fumed(68611-44-9) is found on the following regulatory lists	"Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"	
silica amorphous(7631-86-9) is found on the following regulatory lists	"Australia Exposure Standards", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"	

SECTION 16 OTHER INFORMATION

Other information

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.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)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.

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Actiocms.com

ACTIO MSDS ID: 956705

View Section : 12345678910111213141516

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION 530699

Product Name: EsthetoX HD

Synonyms:EsthetòX« HD High Definition Micro Matrix Restorative CAS Number:Not Applicable Manufacturer MSDS.:530699

Manufacturer Name: Dentsply/Caulk

Address: 38 West Clarke Avenue Milford DE 19963-1805

Emergency Telephone Number: (302) 422-4511 (8:00 AM - 4:30 PM Eastern Time)

http://www.caulk.com

General Use: (For Canada): Light Curing Composite/Dental Filling Material

Business Phone: (302) 422-4511 Hours Of Operation: (8:00 AM û 4:30 PM Eastern Time) Revision Date:06/03/08 Trade Names:EsthetòX« HD High Definition Micro Matrix Restorative NFPA Hazard Classification Ratings (Scale 0-4)

DENTSPLY/International

Chemical Name: Dimethacrylate Resins

Grades or Minor Variant Identities: Compules« and EasyoTwist Syringe NFPA 1

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS530699

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Ingredient NameCAS#Ingredient Percent

Hydrophobic Amorphous Fumed Silica 68611-44-9< than 5% Hazardous:Yes EC Index Number:1 Other Exposure Guidelines:10 mg/m3

Silica (Amorphous) 67762-90-7< than 5% Hazardous:Yes EC Index Number:1 Other Exposure Guidelines:3 mg/m3

Barium boron fluoro alumino silicate glass 65997-18-4< than 30% Hazardous:Yes EC Index Number:1 Other Exposure Guidelines:10 mg/m3

Barium boron alumino silicate glass 65997-17-3< than 50% Hazardous:Yes EC Index Number:1 Other Exposure Guidelines:10 mg/m3

Urethane modified Bis-GMA dimethacrylate 126646-17-1< than 10% Hazardous:Yes EC Index Number:1 Other Exposure Guidelines:Not Established

Polymerizable dimethacrylate resins 109-16-0 Hazardous:Yes EC Index Number:1

Polymerizable dimethacrylate resins 24448-20-2 Hazardous:Yes EC Index Number:1 Composition/Information:Hazardous Components: Polymerizable dimethacrylate resins C.A.S. Number: 24448-20-2/109-16-0 Exposure Limits: Not Established Total % : < than 20 Other Information: Colorants are inorganic iron oxides and titanium dioxide.

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SECTION 3 : HAZARDS IDENTIFICATION530699

Emergency Overview:Material is irritating to eyes, respiratory system and skin.

Applies to All Ingredients : Route of Exposure: Eye, Skin, Inhalation, Ingestion Potential Health Effects:Acute: Other: Not Applicable Eye Contact:Acute: Irritation and possible corneal damage Skin Contact: Acute: Irritation or possible allergic response. Severe allergic response may result in breathing difficulties. Inhalation:Acute: Not Applicable Ingestion: Acute: Not Applicable Chronic Health Effects: Other: Not Applicable Chronic Eye Contact: Irritation and possible corneal damage Chronic Skin Contact: Irritation or possible allergic response. Severe allergic response may result in breathing difficulties. Chronic Inhalation:Not Applicable Chronic Ingestion:Not Applicable Carcinogenicity: OSHA regulated: No All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. NTP Designation:Not listed IARC Designation: Monographs: Not listed Target Organs:Eye: Not Applicable Skin: Not Applicable Inhalation: Not Applicable Ingestion: Not Applicable Other: Not Applicable Signs/Symptoms:Eye: Material can cause irritation. Skin: Material may be an irritant Inhalation: Not Applicable Ingestion: Material is probably not harmful if swallowed Other: Not Applicable Aggravation of Pre-Existing Conditions: Open sores and wounds of the

skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products. Single, Repeated, or Lifetime Exposure: Eye: Single Skin: Single & Repeated Inhalation: Not Applicable Ingestion: Not Applicable Other: Not Applicable Severity (Mild, Moderate, Severe): Eye: Moderate Skin: Moderate Inhalation: Not Applicable Ingestion: Not Applicable Other: Not Applicable Potential Environmental Effects Do not allow to enter sewers/surface or ground water. NFPA Hazard Classification Ratings (Scale 0-4): Health = 1Fire = 1Reactivity = 0To Top of page SECTION 4 : FIRST AID MEASURES530699 Eye Contact: First Aid Instructions: Rinse opened eye for several minutes under running water. If symptoms persist consult physician Immediate Medical Attention: Not Applicable Delayed Effects: Not Applicable Skin Contact: First Aid Instructions: Immediately wash with soap and water and rinse thoroughly Immediate Medical Attention: Not Applicable Delayed Effects: Not Applicable Inhalation: First Aid Instructions: Supply fresh air, consult physician if symptoms persist Immediate Medical Attention: Not Applicable Delayed Effects: Not Applicable Ingestion: First Aid Instructions: If symptoms persist consult physician Immediate Medical Attention: Not Applicable Delayed Effects: Not Applicable Note to Physicians: (Treating, Testing and Monitoring): Not Applicable Other First Aid: First Aid Instructions: Not Applicable Immediate Medical Attention: Not Applicable Delayed Effects: Not Applicable

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SECTION 5 : FIRE FIGHTING MEASURES530699

Flash Point Method:Not Applicable

Upper Flammable or Explosive Limit: In Air: Not Applicable Lower Flammable or Explosive Limit: In Air: Not Applicable Auto Ignition Temperature:Not Applicable Product will not autoignite. Flammability Class:Not Applicable Extinguishing Media:CO2, extinguishing powder, foam carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam. Unsuitable Media:Water with full jet. Flame Propagation in Air:Flame Propagation or Burning Rate (for Solids): Not Applicable Fire Fighting Instructions: For Firefighters: Firefighters should wear self-contained respiratory protective devices. Unusual Fire Hazards: Formation of toxic, irritating gases is possible from the decomposition of the dimethacrylate resins. Product does not present an explosion hazard. Other: Not Applicable

Properties Contributing to Fire Intensity: Not Applicable

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SECTION 6 : ACCIDENTAL RELEASE MEASURES530699

Spill Cleanup Measures:Containment Techniques: Material is a paste and as such will not flow.

Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and scoop up bulk material and place in a labeled plastic or metal container.

Avoid gross skin contact to minimize the possibility of contact dermatitis to susceptible persons. Ensure adequate ventilation.

Evacuation Procedures: Not Applicable

Special Instructions: Not Applicable

Reporting Requirements: Not Applicable

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SECTION 7 : HANDLING and STORAGE530699

Handling:Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

Storage:Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages.

Hygiene Practices:Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION530699 Ventilation System: None required during normal intended use of this product Skin Protection Description: The glove material has to be impermeable and resistant to the product. Eye/Face Protection:Safety Glasses Protective Clothing/Body Protection: Body Protection: Protective work clothing Respiratory Protection: Inhalation: Not Required Other Protective: Equipment: Not Applicable Emergency Skin Protection:Not Applicable Emergency Eye/Face Protection:Not Applicable Emergency Clothing/Body Protection: Body Protection: Not Applicable Emergency Respiratory Protection: Inhalation: Not Applicable General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin. Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable To Top of page SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES530699 Physical State/Appearance:Various shades of viscous paste. Odor: Characteristic sweet acrylic ester odor. Physical State:Normal Physical State: Very High Viscosity Liquid (Paste) pH:Not Applicable Vapor Pressure: (mm Hg): Not Applicable Vapor Density: (AIR = 1): Not Applicable Melting Point:Not Applicable Solubility: In Water: Not soluble

Specific Gravity:2.1 g/cm3

Evaporation Point: (Butyl Acetate = 1): Not Applicable Other:Not Applicable

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SECTION 10 : STABILITY and REACTIVITY530699

Chemical Stability:Stable. Conditions to Avoid:None known. Incompatibilities with Other Materials: (Materials to Avoid) Strong Oxidizing materials. Hazardous Polymerization:May Not Occur Conditions to Avoid: None known Hazardous Decomposition Products:No dangerous decomposition products known if used according to Directions for Use.

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SECTION 11 : TOXICOLOGICAL INFORMATION530699

Toxicological Paragraph:Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant.

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SECTION 12 : ECOLOGICAL INFORMATION530699

Ecological Paragraph:Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.

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SECTION 13 : DISPOSAL CONSIDERATIONS530699

Waste Disposal:Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

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SECTION 14 : TRANSPORT INFORMATION530699

DOT Shipping Information:Regulated for Shipping: No. Not Regulated

Do Changes in Quantities, packaging, or shipment method change product classification: No

Other: Not Applicable DOT Shipping Name:Regul :d for Shipping: No. Not Regulated DOT UN Number:Not Applicable DOT Hazard Class:Not Applicable DOT Packing Group:Not Applicable DOT Subpart E Labeling Requirement: (49CFR172.101): Not Applicable

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SECTION 15 : REGULATORY INFORMATION530699

Applies to all ingredients: TSCA 8(b): Inventory Status: EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory. CERCLA Section 103:U.S. Federal Regulations: CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations Section 302 Extremely Hazardous Substances (TPQ):None Section 313 Toxic Release Form: Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None State: U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list. Canada WHMIS: International Regulations: Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements. European Community Chemical Inventory Status: European Community Labeling: Not a dangerous preparation. European Inventory of New and Existing Chemicals Substances (EINECS):

This product is a medical device and not subject to chemical notification requirements. Other: Not Applicable

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SECTION 16 : ADDITIONAL INFORMATION530699

NFPA:

Health:1 Fire Hazard:1 Reactivity:0 MSDS Revision Date:06/03/08 Disclaimer: To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex. All components are synthetically produced; none are derived from animal products. NFPA Hazard Classification Ratings (Scale 0-4)

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