

## Safety Data Sheet

### Section 1: Identification of the material and the Supplier

<b>Product identifier</b>	<b>EMS Air-flow Classic Comfort</b>
Product use	Air-flow Classic Comfort Powder for cleansing of teeth
<b>Distributor information</b>	
Company identification	<b>Ivoclar Vivadent (NZ) Ltd</b>
Address	12 Omega Street, Rosedale, Auckland, New Zealand
Telephone Number	0508 486 252
Emergencies within New Zealand	<b>0800 764 766 (National Poison Control Centre)</b>

### Section 2: Hazards Identification

Classification of the substance or mixture:	
Classification according to Regulation (EC) No 1272/2008	The product is not classified according to the CLP regulation.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC	Void.
Classification system	The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Label elements:	
Labelling according to Regulation (EC) No 1272/2008	Void.
Hazard pictograms	Void.
Signal Word	Void.
Hazard statements	Void.
Additional information	Void.
Other hazards:	
Results of PBT and vPvB assessment:	
PBT	Not applicable.
vPvB	Not applicable.

### Section 3: Composition/Information on Ingredients

Chemical characterization	Mixtures.
Description	Mixture of substances listed below with non-hazardous additions.
Dangerous components	Void.

#### Other components:

CAS: 144-55-8 EINECS: 205-633-8	sodium hydrogencarbonate	50-100%
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### Section 4: First Aid Measures

Description of first aid measures:	
General information	No special measures required.
After inhalation	Supply fresh air; consult doctor in case of symptoms.

After skin contact	The product is not skin irritating.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. Use eye protection. Remove contact lenses, if present and easy to do.
After swallowing	Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	Symptomatic treatment.

#### Section 5: Fire Fighting Measures

Extinguishing media:	
Suitable extinguishing agents	Carbon dioxide (CO <sub>2</sub> ), extinguishing powder or water spray, fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
For safety reasons unsuitable extinguishing agents	Water with a full water jet.
Special hazards arising from the substance or mixture	Carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).
Advice for firefighters:	
Protective equipment	Wear self-contained breathing apparatus.
Additional information	Cool endangered containers with water spray jet. If without risk possible, move drums with material away from dangerous area. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid causing dust. Do not breathe dust.
Environmental precautions	Do not allow to enter drainage system, surface or ground water.
Methods and material for containment and cleaning up	Ensure adequate ventilation. Collect mechanically. Send for recovery or disposal in suitable containers. Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations.
Reference to other sections	See Section 8 for information on personal protection equipment.

#### Section 7: Handling and Storage

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes. Avoid prolonged or repeated skin contact. Prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly. Do not breathe dust. Make sure that all applicable workplace limits are observed.
Information about protection against explosions and fires	No special measures required.
Conditions for safe storage, including any incompatibilities:	
Storage:	
Requirements to be met by storerooms and containers	Observe all local and national regulations for storage of water polluting products.
Information about storage in one common storage facility	Store away from foodstuffs.
Further information about storage conditions	Store container in a well ventilated position. Protect from humidity and keep away from water. Store in cool, dry conditions in well sealed containers.
Specific end use(s)	No further relevant information available.

### Section 8: Exposure Controls/Personal Protection

Additional information about design of technical systems	No further data; see item 7.
Control parameters:	
Components with critical values that require monitoring at the workplace	Observe all workplace limits for dust.
DNELs	No data available.
PNECs	No data available.
Ingredients with biological limit values	None.
Additional information	The lists that were valid during the compilation were used as basis.
Exposure controls:	
Personal protective equipment:	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Wash hands during breaks and at the end of the work. Avoid contact with the eyes. Do not eat, drink or smoke while working. Use skin protection cream for preventive skin protection.
Breathing equipment	Use breathing protection in care of dust formation. If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
Recommended filter device for short term use	Partikelfilter EN 143 Type P2.
Protection of hands	Protective gloves. To avoid skin problems reduce the wearing of gloves to the required minimum. Check the permeability prior to each renewed use of the glove. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Sensibilization by the components in the glove materials is possible.
Material of gloves:	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.  Butyl rubber - BR Fluorocarbon rubber (Viton) - FKM Nitrile rubber - NBR Poly vinyl chloride - PVC Natural rubber - NR
Penetration time of glove material	Protective gloves should be replaced at first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Tightly sealed safety glasses.
Body protection	Body protection must be chosen depending on activity and possible exposure.

### Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:	
General Information:	
Appearance:	
Form	Powder
Colour	White
Smell	Characteristic
Odour threshold	Not determined
pH-value at 20 °C	8.1
Change in condition:	

Melting point/Melting range	Decomposes before melting
Boiling point/Boiling range	Not determined
Setting temperature/range	Not determined
Flash point	Not applicable
Inflammability (solid, gaseous)	Not applicable
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-inflammability	Product is not self-igniting
Danger of explosion	Product is not explosive
Critical values for explosion:	
Lower	Not determined
Upper	Not determined
Oxidising properties	Not classified as oxidising
Vapour pressure	Not determined
Density at 20 °C	700 - 1150 kg/cm <sup>3</sup>
Bulk density	Not determined
Relative density	Not determined
Vapour density (AIR = 1)	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water at 20 °C	95 g/l
Partition coefficient (n-octanol/water)	Not determined
Viscosity:	
Dynamic	Not applicable
Kinematic	Not applicable
Other information	Further information please refer to technical data sheet

#### Section 10: Stability and Reactivity

Reactivity	No further relevant information available.
Chemical stability:	
Thermal decomposition/conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	Acids.
Hazardous decomposition products	Carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).

#### Section 11: Toxicological Information

Information on toxicological effects:	
Acute toxicity:	
LD/LC50 values that are relevant for classification:	144-55-8 sodium hydrogencarbonate Oral LD50 4220 mg/kg (rat)
Primary irritant effect:	

On the skin	Dust particles may mechanically irritate the skin.
On the eye	Dust particles may mechanically irritate the eye.
Inhalation	No irritant effect known.
Additional toxicological information:	The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
Sensitisation	No sensitizing effect known.
Repeated dose toxicity	According to information currently no known toxic effects.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	According to present knowledge no CMR-effects known.
Carcinogenicity	Not classified.
Mutagenicity	Not classified.
Toxicity for reproduction	Not classified.

### Section 12: Ecological Information

Toxicity:	
Aquatic toxicity:	144-5-8 sodium hydrogencarbonate EC50/48 h      2350 mg/l (water flea (daphnia magna)) LC50/96h      7550 mg/l (gambusia affinis) 8250 mg/l (bluegill (lepomis macrochirus))
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information:	
Chemical Oxygen Demand (COD-value)	Not determined.
Biochemical Oxygen Demand (BOD5-value)	Not determined.
AOX-indication	The product does not contain organically bounded halogens (AOX-free).
General notes	Water hazard class 1 (Self-assessment): slightly hazardous for water.
Results of PBT and vPvB assessment:	
PBT	Not applicable.
vPvB	Not applicable.
Other adverse effects	No further relevant information available.

### Section 13: Disposal Considerations

Waste treatment methods:	
Recommendation	Disposal must be made according to official regulations.
Waste disposal key number	According to local/national regulations.
European waste catalogue	Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
Uncleaned packaging:	
Recommendation	Disposal must be made according to official regulations.

### Section 14: Transport Information

This product is not a Dangerous Good for Road and Rail transport in New Zealand according to NZS 5433 Safe Transport of Dangerous Goods.

### Section 15: Regulatory Information

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

National regulations:

Decree to be applied in case of technical fault                      Directive 96/82/EC does not apply.

Water hazard class                      Water hazard class1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations:

Substances of very high concern (SVHC) according to REACH, Article 57                      This mixture does not contain any substances, that are included in the candidate list for eventual authorisation.

Chemical safety assessment:                      A Chemical Safety Assessment has not been carried out.

### Section 16: Other Information

This document has been compiled by Ivoclar Vivadent Ltd on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Ivoclar Vivadent (NZ) Ltd by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Ivoclar Vivadent (NZ) Ltd has taken all care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Ivoclar Vivadent (NZ) Ltd accepts no liability or any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made.

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