

Safety Data Sheet

Section 1: Identification of the material and the Supplier

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| Product identifier | IPS Empress Universal Glaze Spray |
| Product use | Auxiliary for manufacture of dental prosthesis |
| Distributor information | |
| Company identification | Ivoclar Vivadent (NZ) Ltd |
| Address | 12 Omega Street, Rosedale, Auckland, New Zealand |
| Telephone Number | 0508 486 252 |
| Emergencies within New Zealand | 0800 764 766 (National Poison Control Centre) |

Section 2: Hazards Identification

Product is classified as hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

NZ Group Standard & EPA Approval Code Aerosols (Flammable)
 HSR002515



Flammable

| Hazard Classification | Hazard Code | Hazard Statement |
|-----------------------|--|-------------------------------|
| 2.1.2A | H222 | Extremely flammable aerosol |
| 6.3B | H316 | Causes mild skin irritation |
| 6.4A | H319 | Causes serious eye irritation |
| Prevention Code | Prevention Statement | |
| P103 | Read label before use. | |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. | |
| P211 | Do not spray on an open flame or other ignition source. | |
| P251 | Pressurized container: Do not pierce or burn, even after use. | |
| P264 | Wash hands thoroughly after handling. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
| Response Code | Response Statement | |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. | |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. | |
| Storage Code | Storage Statement | |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C. | |
| Disposal Code | Disposal Statement | |
| P501 | Dispose of according to local regulations. | |

Section 3: Composition/Information on Ingredients

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| Chemical characterisation | Mixtures. |
| Description | Mixture of substances listed below with non-hazardous additions. |

Dangerous components

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| CAS: 75-28-5 | isobutane | 50-100% |
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| EINECS: 200-857-2 | F+ R12 Flam. Gas 1, H220; Press. Gas, H280 | |
| CAS: 67-63-0 EINECS: 200-661-7 | propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 15-<20% |
| Additional information For the wording of the listed risk phrases refer to section 16. | | |

Section 4: First Aid Measures

Description of first aid measures:

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| After inhalation | Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation. |
| After skin contact | Rinse with water. |
| After eye contact | Rinse opened eye for several minutes under running water. Then consult a doctor. |
| After swallowing | Rinse out mouth and then drink plenty of water. |
| Most important symptoms and effects, both acute and delayed | No further relevant information available. |
| Indication of any immediate medical attention and special treatment needed | No further relevant information available. |

Section 5: Fire Fighting Measures

Extinguishing media:

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| Suitable extinguishing agents | CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| For safety reasons unsuitable extinguishing agents | Water with full jet. |
| Special hazards arising from the substance or mixture | No further relevant information available. |
| Advice for firefighters: | |
| Protective equipment | No special measures required. |
| Additional information | Warning! Pressurised container. Cool endangered receptacles with water spray. |

Section 6: Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. |
| Environmental precautions | Do not allow to enter sewers/surface or ground water. |
| Methods and material for containment and cleaning up | Ensure adequate ventilation. Absorb liquid components with liquid-binding material. |
| Reference to other sections | See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. |

Section 7: Handling and Storage

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| Precautions for safe handling | Only adequately trained personnel should handle this product. For use in dentistry only. Ensure good ventilation/exhaustion at the workplace. |
| Information about fire - and explosion protection | Keep ignition sources away - Do not smoke. Protect against electrostatic charges. |
| Conditions for safe storage, including any incompatibilities: | |
| Storage: | |

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| Requirements to be met by storerooms and receptacles: | Store in a cool location. Store only in the original receptacle. Observe official regulations on storing packagings with pressurised containers. |
| Information about storage in one common storage facility | Not required. |
| Further information about storage conditions | Protect from heat and direct sunlight. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. |
| Specific end use(s) | No further relevant information available. |

Section 8: Exposure Controls/Personal Protection

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| Additional information about design of technical facilities | No further data; see item 7. |
| Control parameters: | |
| Ingredients with limit values that require monitoring at the workplace | 67-63-0 propan-2-ol WEL Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm |
| Additional information | The lists valid during the making were used as basis. |
| Exposure controls: | |
| Personal protective equipment: | |
| General protective and hygienic measures | Usual hygienic measures for dental practice. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols. Avoid contact with the eyes. |
| Respiratory protection | In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. |
| Protection of hands |  Protective gloves. After use of gloves apply skin-cleaning agents and skin cosmetics. |
| 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. |
| Penetration time of glove material | 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 goggles. |

Section 9: Physical and Chemical Properties

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| Information on basic physical and chemical properties: | |
| General Information: | |
| Appearance: | |
| Form | Aerosol |
| Colour | White |
| Odour | Characteristic |
| Odour threshold | Not determined |
| pH-value | Not applicable |

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| Change in condition: | |
| Melting point/Melting range | Undetermined |
| Boiling point/Boiling range | Not applicable, as aerosol |
| Flash point | Not applicable, as aerosol |
| Flammability (solid, gaseous) | Not applicable |
| Self-igniting | Product is not selfigniting |
| Danger of explosion | Product is not explosive. However, formation of explosive air/vapour mixtures are possible |
| Explosion limits: | |
| Lower | Not determined |
| Upper | Not determined |
| Vapour pressure | Not determined |
| Density | Not determined |
| Relative density | Not determined |
| Vapour density | Not determined |
| Evaporation rate | Not applicable |
| Solubility in/Miscibility with water | Insoluble |
| Partition coefficient (n-octanol/water) | Not determined |
| Viscosity: | |
| Dynamic | Not determined |
| Kinematic | Not determined |
| Other information | No further relevant information available |

Section 10: Stability and Reactivity

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| Reactivity | No further relevant information available. |
| Chemical stability | Stable under normal handling and storage conditions. |
| Thermal decomposition/ conditions to be avoided | No decomposition if used according to specifications. |
| Possibility of hazardous reactions | Forms explosive gas mixture with air. Danger of bursting. |
| Conditions to avoid | Keep away from heat and direct sunlight. |
| Incompatible materials | No further relevant information available. |
| Hazardous decomposition products | None under normal conditions of storage and use. |

Section 11: Toxicological Information

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| Information on toxicological effects: | |
| Acute toxicity: | |
| Primary irritant effect: | |
| On the skin | No irritant effect. |
| On the eye | Irritating effect. |
| Sensitisation | No sensitising effects known. |
| Additional toxicological information | The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant. |


Section 12: Ecological Information

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| Toxicity: | |
| Aquatic toxicity | No further relevant information available. |
| 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: | |
| General notes | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. |
| Results of PBT and vPvB assessment: | |
| PBT | Not applicable |
| vPvB | Not applicable. |
| Other adverse effects | No further relevant information available. |

Section 13: Disposal Considerations

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| Waste treatment methods: | |
| Recommendation | Must not be disposed together with household garbage. Do not allow product to reach sewage system. Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority. |
| Uncleaned packaging: | |
| Recommendation | Disposal must be made according to official regulations. |

Section 14: Transport Information

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| UN Number | 1950 |  Flammable |
| DG Proper shipping name | Aerosols | |
| DG Class and subsidiary risk | Class 2 Aerosols, Flammable | |
| Packing group | I | |
| Hazchem code | - | |
| Dangerous goods segregation | This product is classified as Dangerous Goods Class 2, packing group I. Please consult NZS 5433 Safe Transport of Dangerous Goods for more information. | |

Section 15: Regulatory Information

Group Standard Allocation & EPA Approval Code Aerosols (Flammable)
 HSR002515

HSNO controls:

Trigger quantities for this substance:

| | Trigger quantity |
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| Approved Handler Location Certificate | 3,000 L awc |
| Tracking Trigger Quantities | 3,000 L awc |
| Signage Trigger Quantities | Not applicable |
| Emergency Response Plan Trigger Quantities | 3,000 L awc |

Section 16: Other Information

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| Relevant phrases | H220 | Extremely flammable gas. |
| | H225 | Highly flammable liquid and vapour. |
| | H280 | Contains gas under pressure; may explode if heated. |

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| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| R11 | Highly flammable. |
| R12 | Extremely flammable |
| R36 | Irritating to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

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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