

## Safety Data Sheet

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

<b>Product identifier</b>	<b>W &amp; H Service Oil F1 MD 200</b>
Product use	Lubricating oil
<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 (Regulation (EC) No 1272/2008) Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC) Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements:

Labelling (Regulation (EC) No 1272/2008) Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### Section 3: Composition/Information on Ingredients

Mixtures:

Chemical nature Synthetic hydrocarbon oil ester oil

Chemical Name	CAS-No. EC-No. Registration Number	Classification (67/548/EEC)	Classification (Regulation EC) No. 1272/2008)	Concentration %
2,6-di-tert-butyl-p-creso	128-37-0 204-881-4	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1: H410	< 0.25

Additional information For the full text of the R-phrases and H-statements mentioned in this section, see Section 16.

### Section 4: First Aid Measures

Description of first aid measures:

If inhaled	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If swallowed	If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur. Move the victim to fresh air. Rinse mouth with water.

### Section 5: Fire Fighting Measures

#### Extinguishing media:

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None.

#### Special hazards arising from the substance or mixture:

Specific hazards during firefighting Fire may cause evolution of carbon oxides.

#### Advice for firefighters:

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.

Further information Standard procedure for chemical fires.

### Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures:

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.

Environmental precautions Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

#### Methods and material for containment and cleaning up:

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

### Section 7: Handling and Storage

#### Precautions for safe handling:

Advice on safe handling Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not repack. Do not re-use empty containers. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use. Avoid inhalation of vapour or mist.

#### Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

### Section 8: Exposure Controls/Personal Protection

#### Control parameters:

Components	CAS-No.	Value Type	Control Parameters	Update	Basis
2,6-di-tert-butyl-p-creso	128-37-0	TWA	10 mg/m <sup>3</sup>	6/04/2005	GB EH40

Further information 2: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

#### Exposure controls:

Engineering measures Maintain air concentrations below occupational exposure standards. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient

environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment:

Respiratory protection

In the case of vapour formation use a respirator with an approved filter.

Hand protection

For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection

Safety glasses with side-shields conforming to EN166.

Hygiene measures

Wash face, hands and any exposed skin thoroughly after handling.

Protective measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Environmental exposure controls:

General advice

Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

### Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance	Liquid
Colour	Yellow
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point/melting range	No data available
Boiling point/boiling range	No data available
Flash point	> 200 °C, Test Method: open cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0.001 hPa, 20 °C
Relative vapour density	No data available
Density	0.84 g/cm <sup>3</sup> , 20 °C
Water solubility	Insoluble
Solubility in other solvents	No data available
Partition coefficient n-octanol/water	No data available
Auto ignition temperature	No data available
Ignition temperature	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	25 mm <sup>2</sup> /s, 40 °C
Oxidizing properties	No data available

## Other information:

Sublimation point	Not applicable
Bulk density	Not applicable

### Section 10: Stability and Reactivity

## Reactivity:

Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	No conditions to be specially mentioned.
Incompatible materials	Materials to avoid: No materials to be especially mentioned.

### Section 11: Toxicological Information

## Information on toxicological effects:

## Product:

Acute oral toxicity	This information is not available.
Acute inhalation toxicity	This information is not available.
Skin corrosion/irritation	This information is not available.
Serious eye damage/eye irritation	This information is not available.
Respiratory or skin sensitization	This information is not available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Teratogenicity	No data available.
STOT - repeated exposure	This information is not available.
Aspiration toxicity	This information is not available.
Further information	Information given is based on data on the components and the toxicology of similar products.

## Components:

## 2,6-di-tert-butyl-p-cresol :

Acute oral toxicity	LD50: 2,930 mg/kg, rat.
Acute dermal toxicity	LD50: > 2,000 mg/kg, rat.

### Section 12: Ecological Information

## Toxicity:

## Product:

Toxicity to fish	No data available.
Toxicity to daphnia and other aquatic invertebrates	No data available.
Toxicity to algae	No data available.
Toxicity to bacteria	No data available.

## Components:

## 2,6-di-tert-butyl-p-cresol :

Toxicity to fish	LC50: 0.464 mg/l, 96 h, Fish, OECD Test Guideline 203.
Toxicity to daphnia and other aquatic invertebrates	EC50: 0.386 mg/l, 48 h, Daphnia magna (Water flea).

M-Factor	1
Persistence and degradability:	
Product:	
Biodegradability	No data available.
Physico-chemical removability	No data available.
Components:	
2,6-di-tert-butyl-p-cresol :	
Biodegradability	4.5 %, Result: not rapidly biodegradable, Exposure time: 28 d, OECD 301 C.
Bioaccumulative potential:	
Product:	
Bioaccumulation	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
Mobility in soil:	
Product:	
Mobility	No data available.
Distribution among environmental compartments	No data available.
Results of PBT and vPvB assessment:	
Product:	
Assessment	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### Section 13: Disposal Considerations

Waste treatment methods:	
Product	The product should not be allowed to enter drains, water courses or the soil. Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging	Empty containers can be landfilled, when in accordance with the local 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:	
Candidate list of substances of very high concern for authorisation	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Major accident hazard legislation	96/82/EC Update: 2003 Directive 96/82/EC does not apply
Chemical safety assessment	This information is not available.

### Section 16: Other Information

Relevant phrases appearing in section 3	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.

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

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