

Safety Data Sheet

Section 1: Identification of the material and the Supplier

Product identifier	W & H Service Oil F1 MD400 REF 10940021
Product use	Synthetic oil which has been specially developed for maintenance of W&H turbine handpieces, straight and contra-angle handpieces, surgical instruments, air scalers and air motors.
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) Group Standard 2006
HSR002515



Flammable



Ecotoxic

Hazard Classification	Hazard Code	Hazard Statement
2.1.2A	H223	Flammable aerosol
6.1E (asp)	H305	May be harmful if swallowed and enters airways
6.3B	H316	Causes mild skin irritation
9.1B	H411	Toxic to aquatic life with long lasting effects
Prevention Code	Prevention Statement	
P102b	Keep out of reach of children.	
P103b	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.	
P273	Avoid release to the environment.	
Response Code		
P101b	If medical advice is needed, have product container or label at hand.	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P331	Do NOT induce vomiting.	
P332 + P313	If skin irritation occurs: Get medical advice/attention.	
P391	Collect spillage.	
Storage Code		
P405	Store locked up.	
P410 + P412	Protect from sunlight.	
Disposal Code		
P501	Triple rinse and dispose of according to local regulations.	

Section 3: Composition/Information on Ingredients

Chemical Identity of Ingredients:

CAS No.	Name	%
106-97-8	Butane	25-35%
64742-49-0	Naphtha (petroleum), hydrotreated light Non-Hazardous ingredients	20-25% balance

Section 4: First Aid Measures

Description of first aid measures:

General information	Never give anything by mouth to an unconscious person or a person with cramps. Guide people to safety.
After inhalation	Provide fresh air.
After skin contact	Wash with generous amount of water. Change contaminated clothing.
After contact with eyes	Rinse immediately carefully and thoroughly with eye-bath or water.
After ingestion	Rinse mouth immediately and drink large quantities of water.
Most important symptoms and effects, both acute and delayed	Headache, nausea, dizziness, fatigue, skin irritation.
Indication of any immediate medical attention and special treatment needed	No information available.

Section 5: Fire Fighting Measures

Extinguishing media:

Suitable extinguishing media	Carbon dioxide (CO ₂). Foam. Extinguishing powder.
Extinguishing media which must not be used for safety reasons	High power water jet.
Special hazards arising from the substance or mixture	Combustible. Vapours may form explosive mixtures with air.
Advice for fire-fighters	In case of fire: Wear self-contained breathing apparatus.
Additional information	Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Remove all sources of ignition. Provide adequate ventilation.
Environmental precautions	Do not allow uncontrolled leakage of product into the environment. Explosion hazard.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal.
Reference to other sections	Refer to section 8 of material safety data sheet.

Section 7: Handling and Storage

Precautions for safe handling:

Advice on safe handling	Provide for sufficient ventilation and punctiform suction at critical points. Dust must be vacuumed up immediately at the place it occurs. Do not eat, drink, smoke or sneeze at the workplace.
Advice on protection against fire and explosion	Do not spray into flames or ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.
Conditions for safe storage, including any incompatibilities:	
Requirements for storage rooms and vessels	Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.
Advice on storage compatibility	Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions	Protect from frost.
Specific end use(s)	No information available.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Exposure limits (EH40):

CAS No.	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
8042-47-5	White mineral oil (petroleum)		5		TWA (8 h) STEL (15 min)	TWA TWA
106-97-8	Butane	600 750	1450 1810		TWA (8 h) STEL (15 min)	WEL WEL

Additional advice on limit values

a No restriction
b End of exposure or shift
c In long-term exposure: after several shifts
d Prior to next shift

TWA (EC): time-weighted average
U: Urea

Exposure controls:

Protective and hygiene measures Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink.

Respiratory protection Wear respiratory protective equipment: Combination filter device (DIN EN 141). Filter respirator with filter or ventilator type: AX.

Hand protection Suitable material: NBR (Nitrile rubber). Penetration time (maximum wearing period): 480min. Thickness of glove material: 0,45 mm

Eye protection Suitable eye protection: Tightly sealed safety glasses.

Skin protection No special precautionary measures are necessary.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:


Physical state	Aerosol	
Colour	Yellow	
Odour	Characteristic	
	Test method	
pH-Value (at 20 °C)	Not applicable	DIN 19268
Changes in the physical state:		
Melting Point	No information available	
Boiling Point	-40 °C	
Sublimation point	No information available	
Softening Point	No information available	
Flash point	-80 °C	
Lower explosion limits	1 vol. %	
Upper explosion limits	11 vol. %	
Ignition temperature	> 200 °C	
Vapour pressure	No information available	
Density (at 20 °C)	0,89 g/cm ³	DIN 51757

Water solubility	Insoluble
Partition coefficient	No information available
Viscosity/dynamic	No information available
Viscosity/kinematic	No information available
Flow time	No information available
Vapour density	No information available
Evaporation rate	No information available
Solvent separation test	No information available
Solvent content	No information available
Other information:	
Solid content	No information available.
Density	Data apply to technical substance
Pressure	- bar (20°C)

Section 10: Stability and Reactivity

Reactivity	Reacts with: Oxidizing agents.
Chemical stability	The product is stable under normal conditions.
Possibility of hazardous reactions	Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.
Conditions to avoid	Keep away from heat. Ignition hazard.
Incompatible materials	No information available.
Hazardous decomposition products	No information available.
Further information	Do not mix with other chemicals.

Section 11: Toxicological Information

Information on toxicological effects:	
Toxicokinetics, metabolism and distribution	No information available.
Specific effects in experiment on an animal	No information available.
Irritation and corrosively	No information available.
Sensitising effects	No information available.
Severe effects after repeated or prolonged exposure	No information available.
Carcinogenic/mutagenic/toxic effects for reproduction	No information available.
Additional information on tests	The classification was undertaken in accordance with the calculation method governed by the Preparations  Directive (1999/45/EC).

Section 12: Ecological Information

Persistence and degradability	There is no data available on the mixture itself. AOX (mg/l): 0.
Bio accumulative potential	There is no data available on the mixture itself.
Mobility in soil	No information available.
Results of PBT and vPvB assessment	No information available.
Other adverse effects	No information available.

Further information	The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).
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Section 13: Disposal Considerations

Waste treatment methods:

Advice on disposal	Waste disposal according to official state regulations.
Waste disposal number of waste from residues/unused products	160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances. Classified as hazardous waste.
Waste disposal number of used product	160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances. Classified as hazardous waste.
Waste disposal number of contaminated packaging	150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging.
Contaminated packaging	Water (with cleaning agent). Completely emptied packings can be recycled.

Section 14: Transport Information

UN Number	1950	
Proper Shipping Name	Aerosols	
DG Class and subsidiary risk	Class 2 Highly Flammable	
Packing group	-	
Dangerous Goods Segregation	This product is classified as Dangerous Goods Class 2, packing group N/A. Please consult NZS 5433 Safe Transport of Dangerous Goods for more information.	

Section 15: Regulatory Information

Group Standard Allocation & EPA Approval Code	Aerosols (Flammable) Group Standard 2006 HSR002515
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HSNO Controls:

Trigger quantities for this substance:

	Trigger quantity
Approved Handler	Yes when present in quantities > 3,000L
Location Certificate	3,000 L
Tracking Trigger Quantities	3,000 L
Signage Trigger Quantities	3,000 L
Emergency Response Plan Trigger Quantities	3,000 L

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 for 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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