

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 1 / 9

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

W & H Service Oil F1 MD400 REF 10940021 26

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

#### 1.2.1 Relevant uses

Lubricant

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Ivoclar Vivadent Ltd.  
12 Omega Street  
NS City Albany, Auckland 0632 / NEW ZEALAND  
Phone +64 9 914 9999  
E-mail orders.nz@ivoclarvivadent.com

#### Address enquiries to

#### Technical information

orders.nz@ivoclarvivadent.com

#### Safety Data Sheet

sdb@chemiebuero.de

### 1.4 Emergency telephone number

#### Advisory body

National Poison Centre (New Zealand): 0800 764 766 (24 hours)

## SECTION 2: Hazards identification

#### Approval

This product is considered to be a hazardous substance to the Hazardous Substances and New Organisms Act (HSNO).  
HSR002515

#### Classes / Hazard Statements

#### GHS.H222

H222 Extremely flammable aerosol.

#### GHS.H229

H229 Pressurised container: May burst if heated.

#### Hazard pictograms



#### Signal word

DANGER

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

#### Other Classifications

There are no other Classifications that are known to apply.

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 2 / 9

### SECTION 3: Composition / Information on ingredients

#### Product-type:

3.2 The product is a mixture.

| Range [%]  | Substance  |
|------------|--|
| 50 - < 100 | iso-Butane   |
|            | CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX |
|            | GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280  |

#### Comment on component parts

All chemical substances in this material are included on or exempted from listing on the NZIoC-Inventory.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately and dispose of safely.

##### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

##### Skin contact

When in contact with the skin, clean with soap and water.  
In the event of symptoms seek medical treatment.

##### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

##### Ingestion

Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.  
In the event of symptoms seek medical treatment.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

##### Extinguishing media that must not be used

Full water jet

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

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons  
Bursting aerosols can be forcibly projected from a fire.

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

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

Use personal protective equipment.  
Ensure adequate ventilation.  
Keep away from all sources of ignition.

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 3 / 9

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

## 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

## 6.4 Reference to other sections

See SECTION 8

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).  
Avoid formation of aerosols.  
Use solvent-resistant equipment.  
Keep away from sources of ignition - refrain from smoking.  
Vapours can form an explosive mixture with air.  
Take precautionary measures against static discharges.  
Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.  
Use barrier skin cream.

## 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
Do not store together with food and animal food/diet.  
Keep in a cool place. Store in a dry place.  
Protect from heat/overheating and from sun.  
Recommended storage temperature: 5-25 °C (41-77 °F).

## 7.3 Specific end use(s)

See product use, SECTION 1.2

# SECTION 8: Exposure controls / personal protection

## 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (NZ)

Substance

CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX

Time Weighted Average (TWA): 800 ppm, 1900 mg/m<sup>3</sup>

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 4 / 9

## 8.2 Exposure controls

|  |   |
|--|---|
| <b>Additional advice on system design</b>                          | Ensure adequate ventilation on workstation.   |
| <b>Eye protection</b>  | Safety glasses. (EN 166:2001)   |
| <b>Hand protection</b>   | The details concerned are recommendations. Please contact the glove supplier for further information.<br>0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3).   |
| <b>Skin protection</b>   | Solvent-resistant protective clothing (EN 340)  |
| <b>Other</b>   | Avoid contact with eyes and skin.<br>Do not inhale gases/vapours/aerosols.<br>Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| <b>Respiratory protection</b>                                      | Breathing apparatus in the event of high concentrations.<br>Short term: filter apparatus, filter A. (DIN EN 14387)  |
| <b>Thermal hazards</b>   | No information available.   |
| <b>Delimitation and monitoring of the environmental exposition</b> | Protect the environment by applying appropriate control measures to prevent or limit emissions.   |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                |
|--|----------------|
| <b>Form</b>                                      | aerosol        |
| <b>Color</b>                                     | yellowish      |
| <b>Odor</b>                                      | characteristic |
| <b>Odour threshold</b>                           | not determined |
| <b>pH-value</b>                                  | not determined |
| <b>pH-value [1%]</b>                             | not determined |
| <b>Boiling point [°C]</b>                        | -40            |
| <b>Flash point [°C]</b>                          | -80            |
| <b>Flammability (solid, gas) [°C]</b>            | not applicable |
| <b>Lower explosion limit</b>                     | 1,5 Vol.%      |
| <b>Upper explosion limit</b>                     | 9,4 Vol.%      |
| <b>Oxidising properties</b>                      | no             |
| <b>Vapour pressure/gas pressure [kPa]</b>        | not determined |
| <b>Density [g/ml]</b>                            | 0,8575         |
| <b>Bulk density [kg/m<sup>3</sup>]</b>           | not applicable |
| <b>Solubility in water</b>                       | not determined |
| <b>Partition coefficient [n-octanol/water]</b>   | not determined |
| <b>Viscosity</b>                                 | not determined |
| <b>Relative vapour density determined in air</b> | not determined |
| <b>Evaporation speed</b>                         | not determined |
| <b>Melting point [°C]</b>                        | not determined |
| <b>Autoignition temperature [°C]</b>             | not determined |
| <b>Decomposition temperature [°C]</b>            | not determined |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 5 / 9

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible during spraying or misting in air.

## 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

Not required under normal conditions.

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

|   |
|---|
| Substance                                       |
| iso-Butane, CAS: 75-28-5                        |
| LC50, inhalative, mouse: 1237 mg/l (2h) (Lit.). |

|   |  |
|---|--|
| <b>Serious eye damage/irritation</b>                      | Based on the available information, the classification criteria are not fulfilled. |
| <b>Skin corrosion/irritation</b>                          | Based on the available information, the classification criteria are not fulfilled. |
| <b>Respiratory or skin sensitisation</b>                  | Based on the available information, the classification criteria are not fulfilled. |
| <b>Specific target organ toxicity — single exposure</b>   | Based on the available information, the classification criteria are not fulfilled. |
| <b>Specific target organ toxicity — repeated exposure</b> | Based on the available information, the classification criteria are not fulfilled. |
| <b>Mutagenicity</b>                                       | Based on the available information, the classification criteria are not fulfilled. |
| <b>Reproduction toxicity</b>                              | Based on the available information, the classification criteria are not fulfilled. |
| <b>Carcinogenicity</b>                                    | Based on the available information, the classification criteria are not fulfilled. |
| <b>Aspiration hazard</b>                                  | Based on the available information, the classification criteria are not fulfilled. |
| <b>General remarks</b>                                    |  |

Toxicological data of complete product are not available.  
The determination of properties hazardous to health does not take the propellant or carrier material into account.

## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

|  |                           |
|--|---------------------------|
| <b>Behaviour in environment compartments</b> | No information available. |
| <b>Behaviour in sewage plant</b>             | No information available. |
| <b>Biological degradability</b>              | No information available. |

### 12.3 Bioaccumulative potential

No information available.

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 6 / 9

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

### SECTION 13: Disposal considerations

|                               |  |
|-------------------------------|--|
| <b>Restrictions</b>           | There are no product-specific restrictions. However, state and local disposal regulations may apply.               |
| <b>Disposal method</b>        | The substance must be handled as hazardous waste and disposed of in an approved facility.                          |
| <b>Contaminated packaging</b> | Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar. |

### SECTION 14: Transport information

#### 14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG Aerosols

- EMS F-D, S-U

- Label



- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable

- Label



Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 7 / 9

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG 2.1

Air transport in accordance with IATA 2.1

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 8 / 9

## SECTION 15: Regulatory information

This product is considered to be a hazardous substance to the Hazardous Substances and New Organisms Act (HSNO).  
HSR002515

### Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

|  |  |
|--|--|
| <b>MSDS</b>                                | The content and format of this Safety-Data-Sheet is in accordance with HSNO Approved Code of Practice. |
| <b>Labelling</b>                           | No removal of labels and/or decanting of product into other containers can occur.                      |
| <b>Emergency plan</b>                      | Required if > 3000 L is stored   |
| <b>Approved handler</b>                    | Not required.  |
| <b>Tracking</b>                            | Not required.  |
| <b>Bunding &amp; secondary containment</b> | Required if > 3000 L is stored   |
| <b>Signage</b>                             | Required if > 3000 L is stored   |
| <b>Location test certificate</b>           | Not required.  |
| <b>Flammable zone</b>                      | Zone 1   |
| <b>Fire extinguisher</b>                   | yes  |

**Note:** The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

**Other Legislation** In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 03)

H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.

Ivoclar Vivadent Ltd.  
NS City Albany, Auckland 0632

Date printed 03.02.2020, Revision 06.08.2019

Version 01

Page 9 / 9

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified Chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®/STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229  
Pressurised container: May burst if heated. (Bridging principle "Aerosols")

### Modified position

none

Copyright: Chemiebüro®