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

#### 1.1 Product identifier

W & H Service Oil F1 MD-400 REF 10940021 Article number: 1101670

# 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

0751 Auckland, Rosedale / NEW ZEALAND

Phone +64 (0)508 486 252 E-mail orders.nz@ivoclar.com

Address enquiries to

**Technical information** orders.nz@ivoclar.com

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

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

## **SECTION 2: Hazards identification**

Approval This product has been approved under the Hazardous Substances and New Organisms Act

(HSNO, Approval HSR002515, Aerosols (Flammable), Group Standard 2020)

Hazard classifications aerosol Category 2

Hazardous to the aquatic environment acute Category 3

aspiration hazard Category 1

**Hazard pictograms** 



Signal word DANGER

Hazard statements H223 Flammable aerosol.

H229 Pressurised container: May burst if heated. H412 Harmful to aquatic life with long lasting effects.

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.

P260 Do not breathe spray.

P273 Avoid release to the environment.

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.

# SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

not applicable



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#### 3.2 Mixtures

## The product is a mixture.

Range [%]	Substance
50 - < 100	iso-Butane
	CAS: 75-28-5
10 - < 20	White mineral oil (petroleum)
	CAS: 8042-47-5
5 - < 10	Propane
	CAS: 74-98-6
1 - < 3	Butane
	CAS: 106-97-8
0,1 - < 1	O,O,O-Triphenyl phosphorothioate
	CAS: 597-82-0

Comment on component parts 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.

Consult a doctor if skin irritation persists.

**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. Rinse out mouth and give plenty of water to drink.

Get medical advice.

Do not induce vomiting.

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

Vertigo

Nausea, vomiting.

## 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

Ingestion

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.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

Cool containers at risk with water spray jet.



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## SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Keep away from all sources of ignition.

#### 6.2 **Environmental precautions**

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

In case the product spills into drains/surface waters/groundwater, immediately inform the

authorities.

#### 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.

## Reference to other sections

See SECTION 8+13

# SECTION 7: Handling and storage

## Precautions for safe handling

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.

## 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).

## Specific end use(s)

See product use, SECTION 1.2



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# SECTION 8: Exposure controls / personal protection

# 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (NZ)

Substance	
Butane	
CAS: 106-97-8	
Time Weighted Average (TWA): 800 ppm, 1900 mg/m³	

## DNEL

Substance	
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0	
Industrial, inhalative, Long-term - systemic effects, 1.39 mg/m³	
Industrial, dermal, Long-term - systemic effects, 400 μg/kg bw/day	
general population, inhalative, Long-term - systemic effects, 340 μg/m³	
general population, dermal, Long-term - systemic effects, 200 μg/kg bw/day	
general population, oral, Long-term - systemic effects, 200 μg/kg bw/day	
iso-Butane, CAS: 75-28-5	
There are no DNEL values established for the substance.	
Propane, CAS: 74-98-6	
There are no DNEL values established for the substance.	
White mineral oil (petroleum), CAS: 8042-47-5	
Industrial, dermal, Long-term - systemic effects, 217,05 mg/kg bw/day	
Industrial, inhalative, Long-term - systemic effects, 164,56 mg/m³	
general population, inhalative, Long-term - systemic effects, 34,78 mg/m³	
general population, dermal, Long-term - systemic effects, 93,02 mg/kg bw/day	
general population, oral, Long-term - systemic effects, 25 mg/kg bw/day	

# PNEC

Substance		
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0		
freshwater, 0.17µg/L		
seawater, 0.017µg/L		
sewage treatment plants (STP), 10mg/L		
sediment (freshwater), 33.9mg/kg sediment dw		
sediment (seaater), 3.39mg/kg sediment dw		
soil, 2.46mg/kg soil dw		
iso-Butane, CAS: 75-28-5		
There are no PNEC values established for the substance.		
Propane, CAS: 74-98-6		
There are no PNEC values established for the substance.		
White mineral oil (petroleum), CAS: 8042-47-5		
There are no PNEC values established for the substance.		



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## 8.2 Exposure controls

Additional advice on system design 

Ensure adequate ventilation on workstation.

**Eye protection** Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information

0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Solvent-resistant protective clothing (EN 340)

Other Avoid contact with eyes and skin.

Do not inhale gases/vapours/aerosols.

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.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the environmental exposition

f the 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

Physical stategasFormaerosolColoryellowishOdorcharacteristicOdour thresholdnot determinedpH-valuenot determinedpH-value [1%]not determined

Boiling point or initial boiling point

and boiling range [°C]

- 40

Flash point [°C] -80

Flammability not applicable
Lower explosion limit 1,5 Vol %
Upper explosion limit 10,8 Vol %
Oxidising properties no

Vapour pressure/gas pressure [kPa] not determined

**Density [g/cm³]** 0,8575

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

not determined

Kinematic viscosity
Relative vapour density
Melting point [°C]
Auto-ignition temperature [°C]
Decomposition temperature [°C]
Particle characteristics
not determined
not determined
not determined
not applicable

9.2 Other information

none

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

See SECTION 10.3.

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Ivoclar Vivadent Ltd.
0751 Auckland, Rosedale



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# 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.



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# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

#### Acute oral toxicity

Product

oral, Based on the available information, the classification criteria are not fulfilled.

Substance

O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0

LC50, oral, Rat, >10,000 mg/kg bw, OECD 401

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 408

White mineral oil (petroleum), CAS: 8042-47-5

LD50, oral, Rat, >5000 mg/kg (OECD 401)

## Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

Substance

O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0

LD50, dermal, Rat, >2,000 mg/kg bw, OECD 402

White mineral oil (petroleum), CAS: 8042-47-5

LD50, dermal, Rabbit, >2000 mg/kg (OECD 402)

#### Acute inhalational toxicity

Product

inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance

iso-Butane, CAS: 75-28-5

LC50, inhalative, mouse, 1237 mg/l (2h) (Lit.)

Propane, CAS: 74-98-6

LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)

White mineral oil (petroleum), CAS: 8042-47-5

LC50, inhalative, Rat, >5000 mg/m³ (4h) (OECD 403)

Butane, CAS: 106-97-8

LC50, inhalativ (gas), Rat, 1443 mg/L (15 min)

# Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

iso-Butane, CAS: 75-28-5

Eye, non-irritating

Propane, CAS: 74-98-6

Eye, non-irritating

White mineral oil (petroleum), CAS: 8042-47-5

Eye, Rabbit, OECD 405, non-irritating

## Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

iso-Butane, CAS: 75-28-5

dermal, non-irritating

Propane, CAS: 74-98-6

dermal, non-irritating

White mineral oil (petroleum), CAS: 8042-47-5



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dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance

iso-Butane, CAS: 75-28-5

dermal, non-sensitizing

inhalative, non-sensitizing

Propane, CAS: 74-98-6

dermal, non-sensitizing

inhalative, non-sensitizing

White mineral oil (petroleum), CAS: 8042-47-5

dermal, Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Substance

iso-Butane, CAS: 75-28-5

inhalative, non-irritating

Propane, CAS: 74-98-6

inhalative, non-irritating

Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Substance

iso-Butane, CAS: 75-28-5

NOAEC, inhalative, Rat, 4437 mg/m³, The effects observed are not sufficient for classification.

White mineral oil (petroleum), CAS: 8042-47-5

NOAEL, dermal, Rat, 2000 mg/kg bw/day, OECD 411

NOAEL, oral, Rat, 1200 mg/kg bw/day, OECD 451

NOEL, inhalative, Rat, 50 mg/m³, OECD 412

Mutagenicity
Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance

White mineral oil (petroleum), CAS: 8042-47-5

NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed

- Development

No information available.

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

White mineral oil (petroleum), CAS: 8042-47-5

NOAEL, oral, Rat, 1200 mg/kg bw/day, OECD 453, no adverse effect observed

Aspiration hazard

May be fatal if swallowed and enters airways.

Based on the available information, the classification criteria are fulfilled.

Calculation method

General remarks

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.



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## SECTION 12: Ecological information

## 12.1 Toxicity

Substance	
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0	
EC50, (48h), Daphnia magna, >100 mg/L, OECD 202	
IC50, (3h), Activated sewage sludge, >100 mg/L, OECD 209	
EL50, (72h), Desmodesmus subspicatus, >100 mg/L, OECD 201	
NOEC, (21d), Daphnia magna, >= 7.24 µg/L	
NOEC, (90d), Oncorhynchus mykiss, 1.7 μg/L	
LL50, (96h), Brachidanio rerio, >100 mg/L, OECD 203	
iso-Butane, CAS: 75-28-5	
LC50, (96h), Fish, 7,71 - 19,37 mg/L	
White mineral oil (petroleum), CAS: 8042-47-5	
LC50, (96h), Leuciscus idus, >1000 mg/l (OECD 203)	
NOEC, (28d), Fish, >= 1000 mg/l	
NOEC, (21d), Daphnia sp., >= 1000 mg/l	
LL50, (48h), Daphnia magna, >100 mg/l (OECD 202)	
NOEL, (72h), Algae, >=100 mg/l (OECD 201)	

## 12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant Biological degradability No information available. No information available.

## 12.3 Bioaccumulative potential

No information available.

## 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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

# 12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

**Restrictions** Substances covered by this Group Standard must comply with the relevant provisions of the

Hazardous

Substances (Hazardous Property Controls) Notice 2017

Contaminated packaging

Disposal method

The substance must be handled as hazardous waste and disposed of in an approved facility.



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## SECTION 14: Transport information

#### 14.1 UN number

Transport by land according to

ADR/RID

not applicable

not applicable

Inland navigation (ADN)

Marine transport in accordance with 1950

**IMDG** 

Air transport in accordance with IATA 1950

## 14.2 UN proper shipping name

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

Aerosols

- EMS

F-D. S-U

- Label

- IMDG LQ

Air transport in accordance with IATA Aerosols, flammable

- Label



## 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 2.1

**IMDG** 

Air transport in accordance with IATA 2.1

## 14.4 Packing group

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable



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## 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

no

Inland navigation (ADN)

Marine transport in accordance with no

**IMDG** 

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

## SECTION 15: Regulatory information

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002515, Aerosols (Flammable), Group Standard 2020)

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

Key workplace requirements are:

MSDS The content and format of this Safety-Data-Sheet is in accordance with HSNO Approved

Code of Practice.

Labelling Consolidated Hazardous Substances (Labelling) Notice 2017

Emergency plan Required if > 1000L is stored

Approved handler

Tracking Bunding & secondary containment Signage -

Location test certificate Flammable zone Fire extinguisher -

Note: -

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.



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# SECTION 16: Other information

#### 16.1 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

dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

ATE = acute toxicity estimate

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

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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 LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

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

## 16.2 Other information

Classification procedure

aerosol Category 2: H223 Flammable aerosol. (Calculation method) H229 Pressurised

container: May burst if heated. (Calculation method)

Hazardous to the aquatic environment acute Category 3: H412 Harmful to aquatic life with

long lasting effects. (Calculation method)

aspiration hazard Category 1: H304 May be fatal if swallowed and enters airways. (Calculation

method)

none

Modified position

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