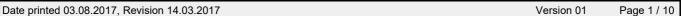
#### W & H Service Oil F1 MD400 REF 10940021 06

## W&H Dentalwerk Bürmoos GmbH

5111 Bürmoos



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

#### **Product identifier**

#### W & H Service Oil F1 MD400 REF 10940021 06

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

1.2.1 Relevant uses

Lubricating oil

1.2.2 Uses advised against

None known.

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

TUNAP Industrie Chemie GmbH & Co Produktions KG Company

Bürgermeister-Seidel-Str. 2 82515 Wolfratshausen / GERMANY

Phone 08171-160066

Fax 08171-160091 Homepage www.tunap.com E-mail info@tunap.com

Address enquiries to

**Technical information** info@tunap.com Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company US Toll-Free 1-800-748-4838

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if

heated

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms

Signal word **DANGER** 

**Hazard statements** H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

**Precautionary statements** P210 Keep away from flames and hot surfaces. No smoking. P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

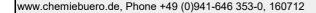
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

tun00051 US

Other hazards

Physico-chemical hazards Vapors may form explosive mixture with air. **Environmental hazards** Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.



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#### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a mixture.

| Range [%] | Substance     |
|-----------|---------------|
| 40 - 60   | iso-Butane    |
|           | CAS: 75-28-5  |
| 20 - 40   | Propane       |
|           | CAS: 74-98-6  |
| 1 - 10    | Butane        |
|           | CAS: 106-97-8 |

Comment on component parts

All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

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 In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek

medical advice.

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

In the event of symptoms seek medical treatment.

Do not induce vomiting.

#### 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.

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#### 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 within

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.

#### 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 (vapors are heavier than air).

Avoid formation of aerosols.

Use solvent-resistant equipment.

Keep away from sources of ignition - refrain from smoking.

Vapors 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

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#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance

iso-Butane

CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX

Long-term exposure: 1000 ppm, ACGIH 2011

Propane

CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX

Long-term exposure: 1000 ppm, 1800 mg/m³, OSHA

Butane

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

Long-term exposure: 800 ppm, 1900 mg/m³, NIOSH

N,N-Bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine

CAS: 80595-74-0, EINECS/ELINCS: 279-503-4

Long-term exposure: OSHA PEL

#### 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.

Avoid contact with eyes and skin. Do not inhale gases/vapors/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** Breathing apparatus in the event of high concentrations.

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

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions

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#### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Form aerosol
Color yellowish
Odor mild

Odor threshold not determined pH-value not determined pH-value [1%] not determined

Boiling point [°C] - 40
Flash point [°C] - 80

Flammability [°C] not applicable
Lower explosion limit 1,8 Vol%
Upper explosion limit 11,2 Vol%
Oxidizing properties no

Vapor pressure/gas pressure [kPa] not determined not determined not determined not applicable solubility in water not determined Partition coefficient [n-octanol/water] not determined Viscosity not determined not det

air

Evaporation speed not determined Melting point [°C] not determined

Autoignition temperature [°C] > 200

Decomposition temperature [°C] not determined

#### 9.2 Other information

none

#### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

See SECTION 10.3.

#### 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 toxicity**

| 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.). |  |  |
| Butane, CAS: 106-97-8                               |  |  |
| LC50, inhalative, Rat: 658 mg/l (4 h) (Lit.).       |  |  |

Serious eye damage/irritation Based on the information available, the classification criteria have not been fulfilled. Skin corrosion/irritation Based on the information available, the classification criteria have not been fulfilled. Respiratory or skin sensitisation Based on the information available, the classification criteria have not been fulfilled. Specific target organ toxicity -Based on the information available, the classification criteria have not been fulfilled. single exposure Specific target organ toxicity -Based on the information available, the classification criteria have not been fulfilled. repeated exposure Mutagenicity Based on the information available, the classification criteria have not been fulfilled. Reproduction toxicity Based on the information available, the classification criteria have not been fulfilled. Carcinogenicity Based on the information available, the classification criteria have not been fulfilled. Aspiration hazard Based on the information available, the classification criteria have not been fulfilled. **General remarks** Toxicological data of complete product are not available.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### 12.2 Persistence and degradability

Behaviour in environment

No information available

compartments
Behaviour in sewage plant

No information available. No information available.

Biological degradability

## 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 Other adverse effects

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

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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

RCRA Hazard Class (40CFR 261): Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

**Product** Dispose of as hazardous waste.

Contaminated packaging Packaging that cannot be cleaned should be disposed of as for product.

Waste must be disposed of in accordance with federal, state and local environmental control RCRA Hazard Class (40CFR 261)

regulations. Consult your local or regional authorities.

### SECTION 14: Transport

#### 14.1 UN number

Transport by land according to 1950

ADR/RID

Inland navigation (ADN) 1950

Marine transport in accordance with 1950

**IMDG** 

Air transport in accordance with IATA 1950

**AEROSOLS** 

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#### 14.2 UN proper shipping name

Transport by land according to

ADR/RID

- Classification Code

- Label

- ADR LQ

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

5F

5F

Inland navigation (ADN) **AEROSOLS** 

- Classification Code

- Label



Aerosols

Marine transport in accordance with

**IMDG** 

- EMS F-D, S-U

- Label

- IMDG LQ

Air transport in accordance with IATA Aerosols, flammable

- Label



DOT Road Shipment Information (49 CFR) UN/NA 1950 Aerosols 2

- Label



#### 14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

Inland navigation (ADN) 2

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

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA not applicable

www.chemiebuero.de, Phone +49 (0)941-646 353-0, 160712

tun00051 US

no

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#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

Inland navigation (ADN)

Marine transport in accordance with n

**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

#### **US Regulations**

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 This product does not contain any ingredients regulated under this list.
 - SARA, 311 This product does not contain any ingredients regulated under this list.
 - SARA, 313 This product does not contain any ingredients regulated under this list.

- CA Proposition 65 No chemical substances in this material are named on the California P65 list.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

A4: Not classifiable as a human carcinogen.

Inventory.

- FDA not applicable

American Conference of Governmental

Industrial Hygienists - ACGIH

International Agency for Research on

Cancer IARC

IARC: Gruppe 3: Not classifiable as to its carcinogenicity to humans.

National Toxicology Program - NTP Ingredients not listed.

HAP-VOC

Transport-regulations

1AP-VUC 80 %

Other Right to Know Laws

DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

Observe employment restrictions for

people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

#### **HMIS Ratings**

| •                   |   |                               |
|---------------------|---|-------------------------------|
| HEALTH              | 1 | 1 - Slight Hazard             |
| FLAMMABILITY        | 4 | 4 - Extreme Hazard            |
| PHYSICAL HAZARD     | 2 | 2 - Moderate Hazard           |
| PERSONAL PROTECTION | В | B - Safety Glasses and Gloves |
|                     |   | <del>-</del> ''               |

#### NFPA Ratings

TOP, FLAMMABILITY: 4 - Extreme Hazard

LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 1 - Slight Hazard

BOTTOM, SPECIAL NOTICE: FLG - Flammable Gas

Modified position

none

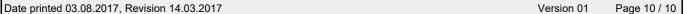
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#### SECTION 16: Other information

## 16.1 Hazard statements (SECTION 03)

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

#### 16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level; DOT = Department of Transportation;

EC50 = Median effective concentration; EPA = Environmental Protection Agency

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%; LD50 = Median lethal dose, 50%;

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;

SARA = Superfund Amendments and Reauthorization Act; 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. (Calculation method) H229 Pressurised

container: May burst if heated. (Calculation method)

Modified position none

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