

**SAFETY DATA SHEET****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****1.1 Identification of the article****Product name**

Teboil Formoil E

**1.2 Manufacturer, importer, supplier****1.2.1 Supplier**

Oy Teboil Ab

**1.2.2 Street address**

Bulevardi 26

**Postcode and post office**

FIN-00120 HELSINKI

**Post-office box**

P.O.B. 102

**Postcode and post office**

FIN-00121 HELSINKI, FINLAND

**Telephone**

ext.+358 2047001

**Telefax**

ext.+358 204700248

**1.2.3 Name and address of the informant in emergency cases**HUCH / Poison Information Centre  
Haartmaninkatu 4, FIN-00029 HYKS, FINLAND**Emergency telephone number**

+358-9-4711

**2. COMPOSITION/INFORMATION ON INGREDIENTS****2.1 Chemical characterisation**

A mixture of highly refined base oils, additives and gas oil.

**2.2 Hazardous components**

<b>2.2.1 CAS-No.</b>	<b>2.2.2 Chemical name of the substance</b>	<b>2.2.3 Weight %</b>	<b>2.2.4 Classification</b>
64742-34-3	Mineral oil	n. 40 %	-
111-76-2	2-Butoxyethanol	1.0 p-%	Xn; R20/21/22-37
68334-30-5	Gas oil	n. 55 %	X <sub>n</sub> ; R40-52/53

**3. HAZARDS IDENTIFICATION**

**HEALTH:** Long term or repeated contact with the liquid causes drying and irritation of the skin and may lead even to irreversible skin changes. Aspiration of ingested product into the lungs or inhalation of oil mist may cause fatal chemical pneumonitis.

**FIRE AND EXPLOSION:** Combustible liquid. Evaporates slowly.

**ENVIRONMENTAL:** Large spills may cause pollution of soil and ground water. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES****4.1 General advice**

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**4.2 Inhalation**

Always obtain medical attention if oil mist is inhaled (risk of chemical pneumonitis).

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#### **4.3 Skin contact**

Wash off immediately with soap and plenty of water and remove contaminated clothing. If skin irritation persists, consult a physician.

#### **4.4 Eye contact**

Rinse immediately with plenty of water, also under the eyelids. If irritation persists, continue irrigation until medical attention is obtained.

#### **4.5 Ingestion**

DO NOT INDUCE VOMITING: Give immediately 2 tablespoonfuls cream or ice cream to cover the product. Consult a physician (risk of aspiration into the lungs especially if nausea or irritation occurs).

#### **4.6 Notes to physician**

Aspiration into the lungs can cause fatal chemical pneumonitis. If nausea or irritation does not appear after ingestion, give 50-100 g medicinal carbon in water slurry.

### **5. FIRE-FIGHTING MEASURES**

#### **5.1 Suitable extinguishing media**

Foam, dry powder, carbon dioxide.

#### **5.2 Extinguishing media which must not be used for safety reasons**

Water.

#### **5.3 Specific hazards**

Explosion risk due to pressure increase if product containers or tanks are subjected to fire.

#### **5.4 Special protective equipment for firefighters**

Self-contained breathing apparatus and full protective clothing.

#### **5.5 Specific methods**

Cool product containers and tanks near the fire with water spray at a safe distance.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions**

Evacuate people upwind from the spill area. Eliminate fire risk by keeping ignition sources out of the area.

#### **6.2 Environmental precautions**

Try to restrict the release and prevent spread of the product into the environment. Collect liquid before it spreads into drains, soil and waters.

#### **6.3 Methods for cleaning up**

Start immediately clean-up of the liquid and contaminated soil. Small amounts can be collected using absorbent material. Pay attention to the hazards (health and fire) caused by the product. Waste material should be disposed of according to national regulations.

#### **6.4 Specific methods**

In case of spill contact immediately local authorities. Adequate protective equipment recommended at all operations.

### **7. HANDLING AND STORAGE**

#### **7.1 Handling**

Keep away from sources of ignition. Take precautionary measures (e.g. earthing) against static discharges.

#### **7.2 Storage**

In a tank or a store suitable for combustible liquids. Take precautionary measures to prevent product spills into drains, soil or waters.

Keep drums and cans tightly closed.

Storage temperature: max. +50°C.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **8.1 Engineering measures**

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Avoid skin contact and inhalation of oil mist. Protective equipment recommended. Clean thoroughly contaminated skin and change dirty clothing and equipment. Store in tightly sealed, labelled containers which are impermeable to hydrocarbons.

## 8.2 National occupational exposure limits

### 8.2.1 National occupational exposure limits

<b>Chemical name of the substance</b>	Oil mist	.
	5 mg/m <sup>3</sup> (8 h)	.

## 8.3 Personal protective equipment

### 8.3.2 Respiratory protection

Oil mist respirator (combined dust and organic vapour filter, type A2/P2)

### 8.3.3 Hand protection

Protective gloves (e.g. of nitrile rubber).

### 8.3.4 Eye protection

Safety goggles if there is a risk of splashing

### 8.3.5 Skin and body protection

Protective clothing when needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Form, Colour, Odour** Yellowbrown liquid.

9.2 **pH** -

9.3 **Information on changes in the physical state**

9.3.1 **Boiling point/range** -

9.3.2 **Melting point/range** -

9.4 **Flash point** > 70 °C

9.6 **Autoignition temperature** n. 250 °C

9.10 **Vapour pressure** < 1 Pa (20°C)

9.11 **Relative density** 855 kg/m<sup>3</sup>

9.12 **Solubility**

- water solubility insoluble

- fat solubility -

9.13 **Partition coefficient (n-octanol/water)**

log P<sub>ow</sub>=3-6 or more.

9.14 **Viscosity** 8 cSt/40°C

## 10. STABILITY AND REACTIVITY

10.3 **Hazardous decomposition products**

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## 11. TOXICOLOGICAL INFORMATION

11.1 **Acute toxicity**

Very low toxicity when swallowed (LD<sub>50</sub>>2000 mg/kg, rat, estimate) and in contact with skin (LD<sub>50</sub>>2000 mg/kg, rabbit, estimate).

11.2 **Primary irritation**

May irritate skin, eyes and breathing channels.

11.3 **Sensitisation**

No data.

11.4 **Long term toxicity**

Contains polyaromatic hydrocarbons. Long term and/or repeated skin contact with certain polyaromatic hydrocarbons have caused skin cancer in tests with animals. Long term and/or repeated inhalation of oil

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mists may cause cancer in the lungs or elsewhere.

### 11.5 Human experience

Prolonged or repeated contact with the product or oil mist causes drying and irritation of the skin and may lead even to irreversible skin changes. When ingested, product irritates the digestive tract. Aspiration of ingested product into the lungs or inhalation of oil mist can cause fatal chemical pneumonitis.

### 11.6 Further information

All used oils contain impurities, which may cause danger to health and/or environment during disposal. All used oils must be handled carefully avoiding skin contact.

## 12. ECOLOGICAL INFORMATION

### 12.1 Persistence and degradability

#### 12.1.1 Biological degradability

No data

#### 12.1.2 Chemical degradation

Does not hydrolyze in water.

### 12.2 Bioaccumulation

Possibly accumulative.

### 12.3 Mobility

Product evaporates slowly. Product may penetrate soil until it reaches the surface of ground water. Gas oil hydrocarbons may be absorbed into organic material in soil or sediments.

### 12.4 Ecotoxicity effects

#### 12.4.1 Aquatic toxicity

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## 13. DISPOSAL CONSIDERATIONS

Waste material should be treated according to national regulations and local authorities advice. When handling the waste note the hazards and take care of necessary safety measures, labelling and information.

## 14. TRANSPORT INFORMATION

### 14.3 Land transport

14.3.1	Class	3/32c
14.3.2	Risk code	30
14.3.3	Description of the goods	Teboil Formoil E

### 14.4 Sea transport

14.4.1	Class	3.3
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## 15. REGULATORY INFORMATION

### 15.1 Labelling

#### 15.1.1 Symbol(s)

Xn Harmful

#### 15.1.2 Contains

Gas oil  
2-Butoxyethanol

#### 15.1.3 R-phrases

R40/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

#### 15.1.4 S-phrases

S20/21 When using, do not eat, drink or smoke.  
S24 Avoid contact with skin.

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S53

Avoid exposure - obtain special instructions before use.

S61

Avoid release to the environment. Refer to the safety data sheet.

S62

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## **16. OTHER INFORMATION**

### **16.1 Recommended use**

#### **16.1.1 Expressed in writing**

Form oil.

### **16.3 Further information**

This information has to be available for all those, who work with this product. This MSDS is based on the present knowledge and it is meant to answer the questions about the product's influence on health, safety and environment.