



EXCELLENCE IN LUBRICANTS

SAFETY DATA SHEET

Taurus Euro FE 5W/30



EXOL LUBRICANTS LIMITED

ALL SAINTS ROAD, WEDNESBURY, WEST MIDLANDS, ENGLAND, WS10 9LL

TEL: +44 (0) 121 568 6800 • FAX: +44 (0) 121 568 6720

WWW.EXOL-LUBRICANTS.COM



SAFETY DATA SHEET

Taurus Euro FE 5W/30

Product Code: M446

SECTION 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING

1.1 Product Identifier	Taurus Euro FE 5W/30
Product Code	M446
1.2 Relevant identified uses of the substance or mixture and uses advised against	Automotive engine crankcase lubricant. Do not use in any other application.
1.3 Company	Exol Lubricants Limited All Saints Road Wednesbury, West Midlands, WS10 9TS
1.4 Emergency Telephone Number	+44 (0) 121 568 6800 (Monday – Friday 08.30 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 22/05/2015

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	CLP Classification: Not classified as hazardous to human health.
<i>See section 16 for full text of H and R phrases</i>	----- Classification to DPD (1999/45/EC) and CHIP Not classified as hazardous
2.2 Label Elements	Labelling in accordance with CLP None Required Labelling in accordance with CHIP None Required
2.3 Other Hazards	PBT: This substance is not identified as a PBT substance.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures Ingredients	EC No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Base oil - unspecified	276-38-4	01-2119474889-13	Asp. Tox. 1; H304	-	<40
Mineral oil	Mixture	Not Available	Asp. Tox. 1; H304	-	<10
Zinc O,O,O'-tetrakis (1,3-dimethylbutyl) bis(phosphorodithioate)	218-679-9	01-2119953275-34	Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315	N, Xi R38, R41, R51/53	<1.5
Butanedioic acid, 2-3-dihydroxy-, mixed C12-16-alkyl and C13-rich C11-14-isoalkyl diesters, (2R, 3R)-rel-	482-100-8	01-0000020152-85	Eye Dam. 1; H318	Xi R41	<1.5
Olefin Sulphides	Confidentiality Pending	Not Available	Aquatic Chronic 3; H412	None R52/53	<1.5
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	253-249-4	01-2119488911-28	Aquatic Chronic 4; H413	None R53	<1.5
Phenol, dodecyl-, branched	310-154-3	01-2119513207-49	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319 Repr. 2; H361 Skin Irrit. 2; H315	N, Xn R36/38, R50/53, R62	<0.2



SAFETY DATA SHEET

Diphenylamine	204-539-4	Not Available	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 STOT RE 2; H373	N, T R23/24/25, R33, R50/53	<0.2
---------------	-----------	---------------	---	-----------------------------------	------

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eyes Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

Skin Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

Ingestion If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

Inhalation If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

4.2 Most important symptoms and effects, both acute and delayed Skin Contact: There may be irritation at the site of contact.
Eye Contact: There may be irritation and redness.

4.3 Indication of immediate medical attention and special treatment needed, if necessary Treatment should in general be symptomatic and directed to relieving any effects.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media Use CO₂, foam, dry powder. DO NOT USE water jets.

5.2 Specific hazards arising from the substance or mixture Large surface areas exposed to air (e.g. product soaked rags, paper or absorbed spillage) may be easily ignited and should be cleared up at once.

5.3 Advice for fire-fighters Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

Water may be used to cool nearby heat exposed areas/objects/packages.

Avoid spraying water directly into storage containers because of the danger of boil-over.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures See Section 8 for protective equipment.
Soak liquid in absorbent material for disposal. Wash down floor area as spillage may be slippery. Larger spillage should be contained with sand or earth and collected in salvage container for disposal.

6.2 Environmental precautions Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.

In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

6.3 Methods and material for containment and cleaning up Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.

6.4 Reference to other sections Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling Empty containers contain residue which may exhibit hazards of product. Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.

7.2 Conditions for safe storage, including any incompatibilities Do not store in open or unlabelled containers. Store away from strong oxidising agents or combustible material. Take precautionary measures to prevent product spills into drains, the ground or waters.

7.3 Specific end use(s) See section 1.



SAFETY DATA SHEET

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Country
EU

Substance
Oil Mist

Long Term (8 Hours TWA)
5 mg/m³

Short Term (15 Mins)
-

8.2 Exposure controls

Occupational Exposure Controls: Ensure adequate ventilation. Use personal protective equipment and/or local ventilation when needed. Avoid skin contact and inhalation of oil mist. Thoroughly clean contaminated skin and change dirty clothing and equipment.

Respiratory Protection: Oil mist respirator (combined particle and organic vapour filter, type A2/P2) where there is a risk of generating oil mist.

Hand Protection: Protective gloves, PVC, nitrile rubber. Change protective gloves regularly.

Eye Protection: Safety goggles if there is a risk of splashing.

Skin Protection: Protective clothing when needed.

Environmental Exposure Controls: Take precautionary measures to prevent product spills into drains, the ground or waters.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Does not constitute a specification

Typical Values

Grades:

Taurus Euro FE 5W/30

Appearance

Units

Pale amber fluid

Odour

Mild

Odour Threshold

No data available

pH

Not applicable

Relative density

kg/m³

0.855 @ 15°C

Solubility - water

Insoluble

Pour Point

°C

-48

Initial boiling point and range

°C

No data available

Flash point (COC)

°C

226

Flammability

No data available

Upper/lower flammability or explosive limits

No data available

Vapour pressure

kPa (0.1 mm Hg)

Not applicable

Partition coefficient n-octanol/water

Log Pow

Not applicable

Autoignition temperature

No data available

Decomposition temperature

No data available

Viscosity

mm²/s

69.7 @ 40°C

mm²/s

11.4 @ 100°C

Evaporation rate

Not applicable

Vapour density

Not applicable

Explosive properties

None

Oxidising properties

None

9.2 Other Information

None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

Stable at ambient temperatures.

10.2 Chemical stability

Stable under normal conditions of use

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Avoid overheating

10.5 Incompatible materials

Incompatible with strong oxidising agents.

10.6 Hazardous decomposition products

Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide and hydrogen sulphide and oxides of sulphur and phosphorus.



SAFETY DATA SHEET

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

- Oral No toxic components present at levels to cause classification.
- Inhalation No toxic components present at levels to cause classification.
- Dermal No toxic components present at levels to cause classification.

Corrosivity/Irritation

- Eye No components present that are classified as eye irritants.
- Skin No components present that are classified as skin irritants.
- Respiratory Tract No components present that are classified as respiratory irritants.

Sensitisation

- Skin No evidence of sensitisation effects.
- Respiratory No evidence of sensitisation effects.

Repeated-dose Toxicity

No data available.

Mutagenicity

No evidence of mutagenicity.

Carcinogenicity

No evidence of carcinogenicity.

Reproductive Toxicity

No evidence of reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

12.2 Persistence and Degradability

Expected to be inherently biodegradable.

12.3 Bioaccumulative Potential

No evidence to suggest bioaccumulation will occur.

12.4 Mobility in Soil

Accidental spillage may lead to penetration in soil and groundwater.

12.5 Results of PBT and vPvB Assessment

This substance is not identified as a PBT substance.

12.6 Other Adverse Effects

None.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Send to registered waste disposal site using services of a registered waste disposal contractor. Disposal of packaging: Dispose of as normal industrial waste. **NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous goods for carriage under ADR/RID/AND/IMDG/ICAO/IATA regulations

14.1 UN Number

-

14.2 UN Proper Shipping Name

-

14.3 Transport Hazard Class

-

14.4 Packing Group

-

14.5 Environmental Hazards

Classified as an Environmentally hazardous substance/Marine Pollutant

14.6 Special Precautions for User

See section 8 for safe handling

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable to packaged goods

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations. Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16 OTHER INFORMATION

Third Issue

Second Issue March 2015: Change of classification



SAFETY DATA SHEET

First Issue November 2014: Changed to new format.

Full text of classification data in sections 2 and 3

Asp. Tox. 1; H304	Aspiration hazard, Hazard Category 1; May be fatal if swallowed and enters airways
Aquatic Acute 1; H400	Hazardous to the aquatic environment, acute hazard, Hazard Category 1; Very toxic to aquatic life
Aquatic Chronic 1; H410	Hazardous to the aquatic environment, long-term hazard, Hazard Category 1; Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2; H411	Hazardous to the aquatic environment, long-term hazard, Hazard Category 2; Toxic to aquatic life with long lasting effects
Aquatic Chronic 3; H412	Hazardous to the aquatic environment, long-term hazard, Hazard Category 3; Harmful to aquatic life with long lasting effects
Aquatic Chronic 4; H413	Hazardous to the aquatic environment, long-term hazard, Hazard Category 4; May cause long lasting harmful effects to aquatic life
Eye Dam. 1; H318	Serious eye damage/eye irritation, Hazard Category 1; Causes serious eye damage
Eye Irrit. 2; H319	Serious eye damage/eye irritation, Hazard Category 2A; Causes serious eye irritation
Repr. 2; H361	Reproductive toxicity, Hazard Category 2; Suspected of damaging fertility or the unborn child
Skin Irrit. 2; H315	Skin corrosion/irritation, Hazard Category 2; Causes skin irritation
Acute Tox. 3; H301	Acute toxicity, oral, Hazard Category 3; Toxic if swallowed
Acute Tox. 3; H311	Acute toxicity, dermal, Hazard Category 3; Toxic in contact with skin
Acute Tox. 3; H331	Acute toxicity, inhalation, Hazard Category 3; Toxic if inhaled
STOT RE 2; H373	Specific target organ toxicity, repeated exposure, Hazard Category 2; Causes damage to organs through prolonged or repeated exposure
Xi;R36/38	Irritating to eyes and skin
Xi; R38	Irritating to skin
Xi; R41	Risk of serious damage to the eyes
T;R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R33	Danger of cumulative effects
Repr. Cat. 3;R62	Risk of impaired fertility
N;R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N; R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment