

	SAFETY DATA SHEET	Page: 1/7
		Revision nr.: 3
	TESTEROL BIO	Issuing date:05.2015.
		Supersedes: 03.2015.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Commercial Product Name : TESTEROL BIO

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

Specific use(s) : Chain saw oil

1.3. Details of the supplier of the safety data sheet

Company : Oil refinery Modrica
 Vojvode Stepe 49
 74480-Modrica, Bosnia and Herzegovina
 Tel.+387 53 812 237
 Fax:+387 53 812 541
 Website:www.modricaoil.com

Person responsible for msds: danka@modricaoil.com

1.4. Emergency telephone number

AUSTRIA: Vergiftungsinformationszentrale (Poisons Information Centre): +43 1 406 43 43

ITALY: Centro Antiveneni (Poisons Centre) +39 06 305 4343

GERMANY: Berliner Betrieb für Zentrale Gesundheitliche Aufgaben +49 30 19240

CZECH REPUBLIC: Poisons Information Centre +42 2 2491 9293

ROMANIA: Department of Clinical Toxicology +40 21 230 8000

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP classification: Not a hazardous mixture according to Regulation (EC) No.1272/2008.

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Precautionary statements (CLP):

P102 Keep out of reach of children

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor if you feel unwell

Contains: Reaction products of bis(2-methylpentan-)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched). May cause allergic reaction

2.3. Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Rapeseed oil	CAS 120962-03-0	90-95	Not classified
Reaction products of bis(2-methylpentan-)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	EC 931-384-6	0,35-0,5	Acute Tox. 4 H302 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Keep warm and in a quiet place. Move to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician if necessary.

Skin contact: Remove contaminated clothing and shoes. After contact with skin, wash immediately with plenty of soap and water. Consult a physician if necessary.

Eye contact: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Ingestion: Do NOT induce vomiting. Call a physician immediately.

Additional advice: First aider needs to protect himself. See also section 8. Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person. Treat symptomatically. When symptoms persist or in all cases of doubt seek medical advice.

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

Inhalation: Health injuries are not known or expected under normal use. Excessive exposures may affect human health, as follows: Irritating to respiratory system.

Skin contact: Repeated exposure may cause skin dryness or cracking. May be irritating. Contact with hot product will cause thermal burns.

Eye contact: Contact with eyes may cause irritation. Contact with hot product will cause thermal burns.

Ingestion: May be fatal if swallowed and enters airways. Ingestion may provoke the following symptoms: nausea, Diarrhea . Aspiration may cause pulmonary oedema and pneumonitis.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray or alcohol resistant foam.

Extinguishing media which shall not be used for safety reasons: High volume water jet .

5.2. Special hazards arising from the substance or mixture

Fire Hazard: Combustible material .

Specific hazards: Possible decomposition products are: CO_x.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Advice for firefighters: Special protective equipment for firefighters . Wear full protective clothing and self-contained breathing apparatus. In the event of fire, cool tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Evacuate personnel to safe areas. Wear personal protective equipment. See also section 8. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Advice for emergency responders: Only qualified personnel equipped with suitable protective equipment may intervene.

6.2. Environmental precautions

Environmental precautions: The product should not be allowed to enter drains, water courses or the soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Prevent further leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal. Dispose of in accordance with local regulations.

6.4. Reference to other sections

See also section 13.

See also section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling: Ensure adequate ventilation. Wear personal protective equipment. See also section 8. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Keep away from heat and sources of ignition. Take measures to prevent the buildup of electrostatic charge. Always replace cap after use. Take care to avoid waste and spillage when weighing, loading and mixing the product. Take any precaution to avoid mixing with incompatible materials. See also section 10.5. Discharge into the environment must be avoided.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store near or with any of the incompatible materials listed in section 10. Store in original container.

7.3. Specific end use(s)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit(s)

Recommended monitoring procedures : Concentration measurement in air
Personal monitoring

8.2. Exposure controls

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a half face mask (EN140). Respirator with a full face mask (EN136). Recommended Filter type: type A (EN141).

Hand protection: Protective gloves complying with EN 374. PVC, Nitrile rubber . The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection: If splashes are likely to occur, wear: Safety glasses with side-shields conforming to EN166 .

Skin and body protection: Overalls, apron and boots recommended.

Engineering measures: Provide sufficient air exchange and/or exhaust in work rooms. Ensure that eyewash stations and safety showers are close to the workstation location.

Take precautionary measures against static discharges. Organizational measures to prevent /limit releases, dispersion and exposure See also section 7 .

Environmental exposure controls: Do not flush into surface water or sanitary sewer system. Comply with applicable Community environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	Yellow to brown
Odour	:	Hydrocarbons
pH	:	not applicable
Flash point	:	> 280 °C
Evaporation rate	:	negligible
Relative density	:	910 kg/m ³
Water solubility	:	insoluble
Viscosity	:	(@ 100°C) 12 mm ² /s typical
Explosive properties	:	Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: See also section 10.5

10.2. Chemical stability

Stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks. See also section 7 .

10.5. Incompatible materials

Incompatible materials: Strong acids / Oxidizing agents . See also section 7 .

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon oxides : CO, CO2.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Not classified (Based on available data, the classification criteria are not met).

LD50/oral/rat-N/A

Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met.)

Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met.)

pH: not applicable

Respiratory/skin sensitisation: Contains: Reaction products of bis(2-methylpentan-)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched). May cause allergic reaction

Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (single exposure): Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (repeated exposure): Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard: Not classified (Based on available data, the classification criteria are not met.)

Further information: Symptoms related to the physical, chemical and toxicological characteristics
See section 4.2.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not available

12.2. Persistence and degradability

Substance	Method	Days	Degradation level
Reaction products of bis(2-methylpentan-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	Sturm	28	7,4

Persistence and degradability: Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation: no data available.

12.4. Mobility

Product disperses readily in water.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

Further information: No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products: Classified as hazardous waste according to European Union regulations. Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) The following Waste Codes are only suggestions: 150110 - packaging containing residues of or contaminated by dangerous substances .

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Restrictions on use :

This product contains an ingredient according to the candidate list of Annex XIV of the REACH

Regulation1907/2006/EC. : none

Authorisations : Not applicable

Authorisations/Restrictions on use: not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation1907/2006/EC: none

16. OTHER INFORMATION

Full text of H- and EUH-phrases:

H302	Harmful if swallowed
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the datasheet : European Chemicals Bureau esis.jrc.ec.europa.eu
MSDS of supplier

Abbreviations and acronyms : ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
LC50 = Median lethal concentration
LD50 = Median lethal dose
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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