

**MATERIAL SAFETY DATA SHEET**

Prepared as per Resolution EC1907/2006 (REACH) and 453/2010

**Platinum AGRO UTTO 10W-30**

Date: 21.01.2013

Revision: 13.10.2014

Version: 2.0

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**Section 1: Identification of substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name: Platinum AGRO UTTO 10W-30**

**Relevant, identified uses of the substance or mixture and uses advised against**

Identified uses: Hydraulic and gear oil UTTO type, designed for lubrication of various types of transmission in agricultural, construction and industrial equipment.

Uses advised against: not defined.

**1.2 Details of the supplier of the safety data sheet**

Supplier: **ORLEN OIL Sp. z o.o.**

Address: ul. Opolska 100, 31-323 Krakow

Phone/fax: +48 12 66 555 00 / +48 12 66 555 01

Information on quality issues: +48 13 43 84 415

E-mail address of the person responsible for the material safety data sheet: [msds@orlenoil.pl](mailto:msds@orlenoil.pl)

**1.3 Emergency telephone number**

112 (emergency telephone number). 998 (Fire Brigade), 999 (Medical Rescue Service), +48 13 43 84 415 (active from Monday through Friday during working hours: 7:00 a.m. to 3:00 p.m.)

**Section 2: Hazard identification**

**2.1 Substance or mixture classification**

Classification in conformity with Directive 1999/45/EC

R52/53

Harmful to aquatic organisms with long lasting effects within the aquatic environment.

Classification in conformity with Resolution

1272/2008/EC Eye Irrit. 2 H319, Aquatic Chronic 3 H412

Irritating to eyes. Harmful to aquatic organisms with long lasting effects.

**2.2 Marking elements**

Pictogram defining hazard type and warning message



**Warning**

Product identifier

None.

Phrases indicating type of hazard

H319 Causes serious eye irritation.

H412 Harmful to aquatic organisms with long lasting effects.

Phrases indicating safety measures



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P280 Use eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container to a licensed waste disposal company.

#### Supplementary information

Contains: alpha-olefin epoxy C14-18, a product of the reaction with boric acid, triphenyl phosphite. May cause allergic reactions.

### 2.3 Other hazards

Mixture components do not meet PBT nor vPvB criteria in compliance with Appendix XIII of REACH Resolution.

## Section 3: Composition/ingredient information

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

CAS number: 64742-54-7 EC number: 265-157-1 Index number: 649-467-00-8 Proper registration number: 01-2119484627-25-0034	<b>dewaxed heavy distillates, hydrotreated (petroleum); base oil – unspecified<sup>1)</sup></b> Classification acc. to 67/548/EEC: substance is not classified as dangerous Classification acc. to 1272/2008/EC: substance is not classified as potentially dangerous	80-85%
CAS number: mixture <sup>2)</sup> EC number: - Index number: - Proper registration number: -	<b>base oil – unspecified<sup>1)</sup></b> Classification acc. to 67/548/EEC: substance is not classified as dangerous Classification acc. to 1272/2008/EC: Asp.Tox.1	< 2%
CAS number: 4259-15-8 EC number: 224-235-5 Index number: - Proper registration number: 01-2119493635-27-XXXX)	<b>Zinc bis(O,O-bis(2- ethylexyl)l) bis(ditiophosphate)</b> Classification acc. to 67/548/EEC: Xi R41, N R51/53 Classification acc. to 1272/2008/EC: Eye Dam. 1 H318, Aquatic Chronic 2 H411	<1.8%
CAS number: - EC number: polymer Index number: - Proper registration number: -	<b>alpha-olefin epoxy C14-18, a product of the reaction with boric acid</b> Classification acc. to 67/548/EEC: R43) Classification acc. to 1272/2008/EC: Skin Sens. 1 H317	< 0.6%
CAS number: 101-02-0 EC number: 202-908-4 Index number: 015-105-00-7 Proper registration number: -	<b>triphenyl phosphite</b> Classification acc. to 67/548/EEC: Xn R22, Xi R36/38, R43, N R50/53 Classification acc. to 1272/2008/EC: Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Irrit.2; H319, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410 (M=1)	< 0.3%
1 - classification after consideration of note L, DMSO extract contents (acc. to IP 346) < 3%. 2 - base oil in the product may be described with one or more of the following labels: Dewaxed heavy distillates, hydrotreated (petroleum); No. EC 265-169-7, Reg. number 01-2119471299-27, Distillates solvent-dewaxed heavy naphthenic (petroleum); No. EC 265-158-7, Reg. number 01-2119487077-29, Dewaxed light distillates, hydrotreated (petroleum); No. EC 265-159-2, Reg. number 01-2119480132-48, Distillates solvent-dewaxed light naphthenic; (petroleum).		

Full text of phrases R and H in Section 16



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#### Section 4: First aid measures

##### 4.1 Description of first aid measures

In case of contact with skin: remove contaminated clothes. Wash the contaminated skin with plenty of water. Wash the clothes before reuse. In case of irritation seek medical advice immediately.

In case of contact with eyes: rinse with plenty of clean water for approx. 15 mins. Protect the eye without irritation, remove contact lenses. NOTE: Do not use too strong water jet, as it could damage the cornea. Seek medical advice immediately.

In case of swallowing: do not induce vomiting. Never put anything into an unconscious person's mouth. Seek medical advice, show the packaging or label.

After respiratory tract irritation: take the person to fresh air, provide warmth and silence. In case of alarming ailments seek medical advice.

##### 4.2 The most important acute and delayed symptoms and exposure effects

After contact with skin: in case of multiple or prolonged contact with skin the product may cause light irritation, redness, skin drying or cracking, dermatological changes.

After contact with eyes: reddening, lacrimation, burning, irritation.

After swallowing: possible nausea, vomiting, the gastrointestinal tract may be irritated.

After inhalation: high concentration of vapors/mists may cause mild irritation to mucous membranes in the upper respiratory passages (throat itching, coughing), headaches, nausea; after longer contact possible breathing disturbances, central nervous system disturbances, abnormalities of limb movements, disorientation, drowsiness, loss of consciousness.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Decision on the rescue procedure is taken by a doctor following thorough examination of victim's condition. Treat symptomatically.

#### Section 5: Firefighting measures

##### 5.1 Extinguishing agents

Proper extinguishing agents: CO<sub>2</sub>, extinguishing powder, foam, water jet., sand. Adjust extinguishing agents to materials present in danger area.

Improper extinguishing agents: full jet of water – risk of fire spreading.

##### 5.2 Special hazards arising from the substance or mixture

In case of fire harmful gases containing carbon, nitrous and sulfur oxides may be formed. Avoid breathing combustion products, since they can pose health risk.

##### 5.3 Advice for fire-fighters

Wear general protection measures typical for fire condition. Do not stay in the area endangered with fire without proper chemical-resistant clothing and self-contained breathing apparatus. Do not allow extinguishing water to reach the sewers, surface and ground waters. Cool off endangered tanks with water spray jet from safe distance.



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#### Section 6: Procedure in case of accidental release into the environment

##### 6.1 Individual safety measures, protective equipment and procedures in emergencies

For people not belonging to the breakdown effect removal personnel: limit the access of strangers to breakdown area until proper cleaning operations are finished. In case of large releases isolate the endangered area. Do not inhale the vapors. Avoid contact with skin and eyes. Use personal protection equipment. Note: leaking product may form a slippery floor.

For breakdown effect removal personnel: the breakdown and its results should be removed only by qualified personnel. Use personal protection equipment.

##### 6.2 Safety measures for environmental protection

Do not allow any substances to reach to sewers, surface and ground waters. In case of larger mixture release proper actions should be taken not to let the release to spread to the environment. Inform proper emergency services.

##### 6.3 Methods and material for containment and cleaning up

Large leak: the leaking place should be enclosed and the liquid should be pumped off.

Small leak: remove with liquid-absorbent materials (ex. sand, diatomaceous earth, universal binders, etc.) and put in waste containers. The collected material should be considered waste. Clean the contaminated place.

##### 6.4 References to other sections

Product waste management – see Section 13. Personal Protection Equipment – see Section 8 of the sheet.

#### Section 7: Substance and mixture handling and storage

##### 7.1 Safety measures for safe handling

Work in conformity with health & safety policies. Do not eat, drink nor smoke during works. Avoid contact with skin and eyes. Do not inhale the vapors. Do not let the product into the mouth. Wash hands before and after the break. Provide proper ventilation. Use personal protection equipment.

##### 7.2 Conditions for safe storage, including any incompatibilities

Store in original container in dry, cool and well ventilated place, keep away from any ignition sources. Do not store together with food or animal feed. Avoid direct sunlight. Protect the product from contamination and humidity. Do not store together with incompatible substances (see Section 10).

##### 7.3 Specific end use(s)

No information about use other than those listed in subsection 1.2.

#### Section 8: Exposure control/personal protection equipment

##### 8.1 Control parameters

Specification	TLV	TLV-STEL	TLV-C	BLV
mineral oils – inhalable fraction	5 mg/m <sup>3</sup>	-	-	-

Legal basis: Dz. U. 2014 pos. 817



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#### Recommended monitoring procedures

It is required to use procedures for dangerous component concentration monitoring in air and air cleanness in workplace procedures - if available and reasonable in a given workplace – in accordance with proper Polish or European standards with consideration of conditions in place of exposure and measurement methodology adjusted to working conditions. Test and measurement mode, type and frequency should meet the requirements in Resolution of MoH of 2. February 2011 (Dz. U. Nr 33, pos. 166).

#### DNEL value for dewaxed heavy distillates, hydrotreated (petroleum) DNEL employee

(inhalation, chronic toxicity) 5.4 mg/m<sup>3</sup>/8h (aerosol)

DNEL consumer (inhalation, chronic toxicity) 1.2 mg/m<sup>3</sup>/24h (aerosol)

## 8.2. Exposure control

Observe general health & safety policies. Do not eat, drink nor smoke during works. Wash hands before and after the break. Avoid contact with skin and eyes. Do not inhale the vapors. Contaminated clothes should be removed and washed before reuse. Provide proper ventilation. In proximity of workplace safety showers and eye-washing stations should be installed.

Hand and body protection: it is recommended to use protective gloves resistant to oils made of: viton, perbutane, butyl rubbers. In case of short-term contact use protective gloves with efficiency level 2 or more (penetration time > 30 min). In case of long-term contact use protective gloves with efficiency level 6 (penetration time > 480 min). Use protective clothes made of coated materials.

The material of gloves should be impermeable and resistant to product. The selection of material should be done in consideration with penetration time, permeation and degradation rate. Moreover, the selection of proper gloves depends not only on material, but also on other quality features and changes with each manufacturer. The glove manufacturer should provide information on accurate penetration time and observe it.

Eye protection: use protective goggles.

Respiratory tract protection: not required if proper ventilation is guaranteed. If there is a risk of aerosol formation or vapor build-up, use absorbent equipment or absorbent-filtering equipment with proper class of protection (Class 1/protection from gases or vapors with volume not exceeding 0.1%; Class 2/ protection from gases or vapors with volume not exceeding 0.5%; Class 3/ protection from gases or vapors with volume not exceeding 1%). In cases when oxygen concentration is  $\leq 17\%$  and/or maximum toxic substance concentration in air is  $\geq 1.0\%$  obj. isolating equipment should be used.

Personal protection equipment should meet the requirements included in Resolution of Minister of Economy of 12/28/2005 (Dz. U. No. 259, pos. 2173) and Directive 89/686/EC (with amendments). The Employer is required to provide personal protection equipment according to his or her work responsibilities and meeting all quality requirements, including maintenance and cleaning.

Thermal hazards: not present.

#### Environmental exposure control

Avoid release to the environment or sewers. Possible emissions from ventilation systems and process devices should be controlled in order to determine conformity with requirements of environmental law.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

physical state/form:	liquid
color:	light yellow do brown
odor:	characteristic, oily



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Odor threshold	not determined
pH value:	not determined
initial boiling temperature and boiling range:	not determined
ignition temperature:	> 200°C
vaporization rate:	not determined
flammability (solid, gas):	not applicable
upper/lower explosion limit:	not applicable
vapor pressure:	not determined
vapor density:	not determined
density:	determined
solubility:	insoluble in water
n-octanol/water partition coefficient:	not determined
autoignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not present
oxidizing properties:	not present
viscosity (40°C):	70-95 mm <sup>2</sup> /s

#### 9.2. Other information

No additional tests.

### Section 10: Stability and reactivity

#### 10.1 Reactivity

Reactive product. Does not polymerize. See also Section 10.3–10.5.

#### 10.2 Chemical stability

Proper use and storage ensures product stability.

#### 10.3 Possibility of dangerous reactions

No dangerous reactions are known of.

#### 10.4 Conditions to avoid

Remove direct sunlight, heat sources and ignition.

#### 10.5 Incompatible materials

Avoid contact with strong oxidants, acids and flammable materials.

#### 10.6 Dangerous decomposition products

Unknown.

### Section 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Component toxicity

dewaxed heavy distillates, hydrotreated (petroleum) [CAS64742-54-7] LC<sub>50</sub>

(inhalation, rat) > 5.53 mg/l

LD<sub>50</sub> (orally, rat) > 5000 mg/kg mc

LD<sub>50</sub> (skin, rabbit) > 5000 mg/kg mc



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#### **Mixture toxicity**

##### Acute toxicity

Based on available data, the classification criteria are not met.

##### Skin corrosion/irritation skin irritant

Based on available data, the classification criteria are not met.

##### Serious eye damage/irritation

Irritating to eyes.

##### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

##### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### Toxicity for reproduction

Based on available data, the classification criteria are not met.

Toxic effects on specific organs – single exposure Based on available data, the classification criteria are not met.

Toxic effects on specific organs – repeated exposure Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1 Toxicity

#### **Component toxicity**

##### Triphenyl phosphite

Fish toxicity LC<sub>50</sub> > 16 mg/l/96h (Brachydanio rerio) Daphnia toxicity EC<sub>50</sub> 1-5 mg/l/48h (Daphnia magna)

#### **Mixture toxicity**

Harmful to aquatic organisms with long lasting effects.

### 12.2 Persistence and degradability

No data for mixture.

dewaxed heavy distillates, hydrotreated (petroleum) [CAS64742-54-7] Biological degradability: hardly biodegradable (2-31% in 28 days)

### 12.3 Bioaccumulation capability

No data for mixture.

### 12.4 Mobility in soil

Mobility of soil components depends on its hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions and soil organisms (mainly bacteria, fungi, algae, invertebrates).



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#### 12.5 Results of property assessment PBT and vPvB

Not applicable.

#### 12.6 Other harmful effects

The mixture is not classified as dangerous to ozone layer. It is required to consider the possibility of other harmful influence of individual mixture components on environment (ex. endocrine disrupting potential, influence on global warming).

### Section 13: Disposal considerations

#### 13.1 Waste treatment methods

Recommendations applicable for the mixture: do not allow to enter sewage draining systems. Utilise in compliance with applicable regulations. The waste code should be assigned to the site of its generation.

Recommendations concerning used packages: recovery / recycling / package waste decommissioning should be carried out in compliance with applicable regulations. Only entirely emptied packages can be submitted to recycling.

Community legal acts: directives of the European Parliament and Council: 2008/98/EC, 94/62/EC.

Domestic legal acts: Journal of Laws of 2013, item 21, Journal of Laws of 2013 item 888.

### Section 14: Transport information

#### 14.1 UN number (ONZ number)

Not applicable. The product is not dangerous during transport.

#### 14.2 UN proper shipping name

N/A

#### 14.3 Transport hazard class(es)

N/A

#### 14.4 Packing group

N/A

#### 14.5 Environmental hazards

N/A

#### 14.6 Special precautions for user

N/A

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

N/A

### Section 15: Regulatory information

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

The Act of 25<sup>th</sup> February 2011 on chemical substances and their mixtures (Journal of Laws No. 63, item 322, as amended).

Regulation of the Minister of Health of 10<sup>th</sup> August 2012 on the criteria and methods of classification of chemical substances and their mixtures (Journal of Laws, item 1018, of 2012, as amended).

Regulation of the Minister of Health of 20<sup>th</sup> April 2012 on the labelling of hazardous substances and hazardous mixtures and of certain mixtures (Journal of Laws of 2012 item 445, as amended).

Regulation of the Ministry of Labour and Social Policy of 29<sup>th</sup> November 2002 on the issue of permissible concentrations and intensities of health hazardous factors at workplace (Journal of Laws No. 217, item 1833, as amended).

The Act on Waste of 14<sup>th</sup> December 2012 (Journal of Laws of 2013, item 21).





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The Act of 13<sup>th</sup> June 2013 on package and package waste management (Journal of Laws of 2013 item 888). Regulation of the Minister of Environmental Protection of 27<sup>th</sup> September 2001 on the catalogue of waste (Journal of Laws No. 112, item 1206).

Regulation of the Minister of Economy of 21<sup>st</sup> December 2005 on the principal requirements for personal protective equipment (Journal of Laws No. 259, item 2173).

Regulation of the Minister of Health of 2<sup>nd</sup> February 2011 on tests and measurements of health harmful factors at workplace (Journal of Laws No. 33, item 166).

Government Statement of 28<sup>th</sup> May 2013 on the entry into force of the amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30<sup>th</sup> September 1957 (Journal of Laws of 2013 item 815).

1907/2006/EC Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18<sup>th</sup> December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

**1272/2008/EC** REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

**1999/45/EC** Directive of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

**790/2009/EC** COMMISSION REGULATION (EC) No. 790/2009 of 10<sup>th</sup> August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16<sup>th</sup> December 2008 on classification, labelling and packaging of substances and mixtures.

**453/2010/EC** COMMISSION REGULATION (EU) No. 453/2010 of 20<sup>th</sup> May 2010, amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**2008/98/EC** of the European Parliament and of the Council of 19<sup>th</sup> November 2008 on waste and repealing certain Directives

**94/62/EC** of the European Parliament and of the Council of 20<sup>th</sup> December 1994 on packaging and packaging waste.

#### 15.2 Chemical safety assessment

No chemical safety assessment is required for this mixture.

#### Section 16: Other information

Full text of R and H phrases from Section 3 of the Safety Sheet

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.



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#### Legend to abbreviations and acronyms

PBT	Persistent Bioaccumulative Toxic
vPvB	very Persistent very Bioaccumulative
TLV	Threshold Limit Value
TLV-STEL	Threshold Limit Value      Short-Term Exposure Limit
TLV-C	Threshold Limit Value      Ceiling Limit
BLV	Biological Limit Values
DNEL	Derived No-Effect Level
Acute Tox. 4	Acute Toxicity category 4
Eye Dam. 1	Eye damage category 1
Skin Corr. 1B,1C	Skin corrosion category 1B,1C
Aquatic Acute 1	Hazardous for aquatic life category 1
Skin Irrit. 2	Skin irritating effects category 2
Eye Irrit. 2	Eye irritating effects category 2

#### Trainings

Prior to product handling, the user should be knowledgeable about the Occupational Health and Safety Principles in handling of chemicals and, in particular, undergo workplace specific hands-on training.

#### Additional information

The classification has been based on the data of the contents of hazardous components, obtained by a calculation method, based on the guidelines in Regulation of the Minister of Health of 10<sup>th</sup> August 2012 on the criteria and method of classification of chemical substances and their mixtures (Journal of Laws of 2012 item 1018) and 1272/2008/EC Directive (CLP).

Revision date:	13.10.2014
Version:	2.0/EN
Amendments:	Sections 1-16
MSDS prepared by:	Aleksandra Gendek (based on the manufacturer's data)
MSDS issued by:	" <b>THETA</b> " Technical Counselling

The above information has been based on currently available, product characterising data and on the manufacturer's knowledge and experience within this scope. This information does not constitute quality description of the product or a guarantee of specific properties. The provided data should be treated as an aid for safe product handling in transport, storage and use. This does not exempt the user from the responsibility for the proper use of the above information and compliance with all legal standards, applicable in this particular field.

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