



# John Deere Break-In Plus 10W30

## Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 12/04/2013 Version: 1.0

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

#### 1.1 Product identifier

Product form : Mixture  
Trade name : John Deere Break-In Plus 10W30  
Product code : TY26661, TY26662, TY2663  
Other means of identification : API CJ4/SL Engine Oil

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

Use of the substance/mixture : API CJ4/SL Engine Oil

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

#### MANUFACTURER:

Northland Products  
1000 Rainbow Drive  
Waterloo, IA 50704

Tel: +1-319-234-5585  
+1-800-772-1724

#### SUPPLIER:

Deere & Company  
One John Deere Place  
Moline, IL 61265  
E-mail: ESOC@JohnDeere.com

#### 1.4 Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300  
Chemtrec (Outside USA) +1 703-527-3887 (24 hours)  
Supplier: +1-309-748-5636 or 1-800-822-8262 (24 hours)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

GHS-US classification

Not classified

WHMIS Classification

Not classified

#### 2.2 Label elements

GHS-US labelling

No labelling applicable

#### 2.3 Other hazards

Other hazards which do not result in classification : This product contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. Spills of this product present a serious slipping hazard. Used oil, may contain harmful impurities. Used motor oil was associated with cancer in lifetime skin painting studies with laboratory animals. When using high-pressure equipment, injection of product can occur. Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage.

#### 2.4 Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance

Not applicable

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### 3.2 Mixture

Full text of H-phrases: see section 16

Name	Product Identifier	%	GHS/OS classification
Distillates, petroleum, solvent-dewaxed heavy paraffinic	(CAS No) 64742-65-0	0,1 - 5	Asp. Tox. 1, H304
Distillates, petroleum, solvent-refined heavy	(CAS No) 64741-88-4	0,1 - 5	Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
Distillates, petroleum, solvent-refined light paraffinic	(CAS No) 64741-89-5	0,1 - 5	Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	(CAS No) 68649-42-3	0,9	Skin Irrit. 2, H315 Eye Dam. 1, H318

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In case of breathing difficulties administer oxygen.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : This product contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.
- Symptoms/injuries after inhalation : In the event of insufficient ventilation: Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. Typical symptoms are respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.
- Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation. Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage.
- Symptoms/injuries after eye contact : If user operations generate dust or fumes, . May cause eye irritation. Exposure to vapor may cause intense watering and irritation to eyes.

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

Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage. Immediate treatment at a surgical emergency center is recommended.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : When heated above the flash point, releases flammable vapours. Leaks/ruptures in high pressure system can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

### 5.3 Advice for firefighters

- Precautionary measures fire : Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Gases/vapours, toxic.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained respiratory apparatus during longer or intensive exposition or spraying processing.
- Other information : Special danger of slipping by leaking/spilling product.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

General measures : Use personal protective equipment as required. Special danger of slipping by leaking/spilling product. Stop leak if safe to do so. Relevant water authorities should be notified of any large spillage to water course or drain. This material can burn but will not readily ignite. Under fire conditions closed containers may rupture or explode.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Avoid breathing mist or vapor. Avoid direct eye contact with product, also via contamination on hands. Avoid contact with skin, eyes and clothes.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : The low volatility of this product does not require ventilation. However depending on the condition an adequate ventilation might be required.

#### 6.2 Environmental precautions

Prevent entry to sewers and public waters. An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as fabric absorbents, clay or diatomaceous earth as soon as possible. Recover large spills by pumping (use an explosion proof or hand pump). Collect spillage. Store away from other materials. Consult the appropriate authorities about waste disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Additional hazards when processed : Special danger of slipping by leaking/spilling product. Never use pressure to empty containers. Over pressure may rupture containers, cause serious injury, cause or accelerate fire.

Precautions for safe handling : Keep out of reach of children. Avoid contact with skin, eyes and clothes. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Empty container retains product residue. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Ground/bond container and receiving equipment. Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well-ventilated place away from highly flammable substances.

Incompatible materials : Strong acid. Base. Oxidizing agents.

Storage temperature : Store at ambient temperature

Heat and ignition sources : Remove all sources of ignition.

Storage area : Well-ventilated area.

#### 7.3 Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### 8.2 Exposure controls

Appropriate engineering controls : Use ventilation to keep exposure to airborne contaminants below the exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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Personal protective equipment : Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles.



Hand protection : Wear protective gloves, rubber gloves.  
Eye protection : Chemical goggles or safety glasses. with side-shields.  
Skin and body protection : Long sleeved protective clothing. Wear rubber boots.  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Protection factors vary depending upon the type of respirator used. Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).  
Environmental exposure controls : Do not allow run-off from fire-fighting to enter drains or water courses. Ensure waste is collected and contained. Notify authorities if product enters sewers or public waters.  
Other information : Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Colour : Clear to light amber.  
Odour : Petroleum. Characteristic.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : > 320 °C (608 °F)  
Flash point : 210 °C (410 °F) Test method: COC  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Lower Flammability Limit (LFL) 0.9  
Upper Flammability Limit (UFL) 7.0  
Vapour pressure : < 0,01 mm Hg Maximum @ 37.8 °C (100 °F)  
Relative vapour density at 20 °C : > 1  
Relative density : 0,875 g/cm<sup>3</sup> at 15.6 °C / 60 °F  
Solubility : Water: insoluble  
Organic solvent: completely soluble  
Log Pow : Base oil hydrocarbons: log Kow > 4 (estimate)  
Log Kow : Base oil hydrocarbons: log Kow > 4 (estimate)  
Viscosity, kinematic : 67 cSt (40 °C/104 °F)  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

#### 9.2 Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No additional information available

#### 10.2 Chemical stability

Stable at normal temperatures and pressures.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.

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### 10.5 Incompatible materials

Strong acid. Strong bases. Oxidizing agents.

### 10.6 Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. unburned hydrocarbons.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity : Not classified

#### Phosphorodithioic acid, O,O-di-C(1-14)-alkyl esters, zinc salts (68649-42-3)

LD50 dermal rabbit	> 2000 mg/kg
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#### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2,18 mg/l/4h
ATE (dust,mist)	2,180 mg/l/4h

#### Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5 g/kg
LC50 inhalation rat (mg/l)	2,18 mg/l/4h
ATE (dust,mist)	2,180 mg/l/4h

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified Based on available data, the classification criteria are not met  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified Based on available data, the classification criteria are not met  
Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified Based on available data, the classification criteria are not met  
Aspiration hazard : Not classified May be fatal if swallowed and enters airways  
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.  
Symptoms/injuries after inhalation : In the event of insufficient ventilation: Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. Typical symptoms are respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.  
Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation. Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage.  
Symptoms/injuries after eye contact : If user operations generate dust or fumes, . May cause eye irritation. Exposure to vapor may cause intense watering and irritation to eyes.

## SECTION 12: Ecological information

### 12.1 Toxicity

Ecology - general : May be toxic to aquatic life.

#### Phosphorodithioic acid, O,O-di-C(1-14)-alkyl esters, zinc salts (68649-42-3)

EC50 Daphnia 1	1 - 1,5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	10,0 - 35,0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

#### Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-66-0)

LC50 fishes 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

LC50 fishes 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

LC50 fishes 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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<b>Distillates, petroleum solvent refined light paraffinic (64741-89-5)</b>	
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2 Persistence and degradability

<b>John Deere Break-In Plus 10W30</b>	
Persistence and degradability	Not established.

### 12.3 Bioaccumulative potential

<b>John Deere Break-In Plus 10W30</b>	
Log Pow	Base oil hydrocarbons: log Kow > 4 (estimate)
Log Kow	Base oil hydrocarbons: log Kow > 4 (estimate)
Bioaccumulative potential	Not established.

### 12.4 Mobility in soil

No additional information available

### 12.5 Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Sewage disposal recommendations : Prevent entry to sewers and public waters. An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.
- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Liquid product may not be disposed of with household waste or landfilled. Do not allow to enter into drains/waters or in the soil. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.
- Additional information : Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Used oil, may contain harmful impurities. Used motor oil was associated with cancer in lifetime skin painting studies with laboratory animals.
- Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1 UN number

Not applicable

### 14.2 UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

#### Overland transport

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

## SECTION 15: Regulatory information

CANADA

### Phosphorodithioic acid, C, O, and C-14-alkyl esters, zinc salts (68649-42-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### Distillates, petroleum solvent dewaxed heavy paraffinic (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### 15.2. International regulations

#### Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### EU-Regulations

#### Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2.2. National regulations

#### Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the AICS (the Australian Inventory of Chemical Substances)  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

#### Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)

Listed on the AICS (the Australian Inventory of Chemical Substances)  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

#### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

Listed on the AICS (the Australian Inventory of Chemical Substances)  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

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### ~~Distillates, petroleum solvent-refined light paraffinic (64741-89-5)~~

Listed on the AICS (the Australian Inventory of Chemical Substances)  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

### SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage

SDS Canada (GHS)

*The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Northland Products Company's knowledge; however, Northland Products Company makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. Northland Products Company assumes no responsibility for the injury to the recipient or to third party persons or for any damage to any property and recipient assumes all such risks*