

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 10/10/2013 Version: 1.0

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

1.1. Product Identifier

Use of the substance/mixture

Product form

Mixture

Trade name

John Deere Hydrau XR

Product code

: TY27318, TY27319

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

: Synthetic VHVI Hydraulic Fluid

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

Acute Tox. 4 (Inhalation:dust,mist) H332

2;2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

H332 - Harmful if inhaled

Precautionary statements (GHS-US)

P261 - Avoid breathing mist, spray, vapours

P271 - Use only outdoors or in a well-ventilated area

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER/doctor if you feel unwell

P501 - Dispose of contents/container to Comply with applicable local, national and international

regulation.

2.3. Other hezards

other hazards which do not result in

classification

Spills of this product present a serious slipping hazard. 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.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Not applicable

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Full text of H-phrases; see section 16

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3:2 Mixture	
3.2 MIXIUR	

Name:	Productidentifier	<i>%</i>	GHS-US:classification
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil- based -IP346<3%	(CAS No) 72523-87-1	40 - 60	Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
1-Decene, homopolymer, hydrogenated	(CAS No) 68037-01-4	20 - 30	Asp. Tox. 1, H304
Poly long-chain alkyl methacrylate		4 - 10	Eye Irrit. 2A, H319

SECTION 4: First aid measures

First-aid measures after eye contact

45. Description of irst 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. In all cases of doubt, or when symptoms persist, seek medical advice.

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. If skin irritation occurs: Get medical advice/attention.

: 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 : 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 : Excess inhalation might cause risk of chemicals pneumonitis.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation.

Symptoms/injuries after eye contact : Oil Mist. Contact may cause eye irritation.

4:3 indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

6/1. Extingulatine mode

Suitable extinguishing media : Use media as appropriate for surrounding material . Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards grising from the substance or mixture

Fire hazard : When heated above the flash point, releases vapours. Gas/vapours, flammable.

5.3: Advice för 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.

SECTION 6: Accidental release measures

6.1. Personal prevautions, protective equipment and emergency procedures

General measures : 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. Take any precaution

to avoid mixing with combustibles ...

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 ventalation might be required.

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6/2: Env) on mental precautions:

Prevent entry to sewers and public waters. 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. Collect spillage. Store away from other materials. Consult the appropriate authorities about waste disposal.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7/41. Bregautions to safe handling.

Additional hazards when processed

: Special danger of slipping by leaking/spilling product.

Precautions for safe handling

Provide good ventilation in process area to prevent formation of vapour. 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. 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.

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 sale storage, including any incompatibilities

Technical measures

: Technical ventilation of workplace. Ensure the ventilation system is regularly maintained and tested. Emergency shower installed. A washing facility/water for eye and skin cleaning purposes should be present.

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

sawdust, Strong acid, Base, Oxidizing agents.

Storage temperature

Storage area

Store at ambient temperature

Heat and ignition sources

Remove all sources of ignition. Protect against direct sunlight.

7.9 Specilic and Usels)

No additional information available

SECTION 8: Exposure controls/personal protection

87 Gontrol parameters

Appropriate engineering controls

8.2 Exposure controls: : A washing facility/water for eye and skin cleaning purposes should be present. Emergency shower installed. Mechanical ventilation should be used in low or enclosed places

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

Wear chemical splash goggle. Chemical goggles or safety glasses.

Skin and body protection

Chemical resistant suit. Wear rubber boots.

Wear respiratory protection.

Respiratory protection Thermal hazard protection

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

9.4 Information on basic physical and chemical properties.

Physical state

: Liquid

Colour

: Clear to light amber.

Odour

: Petroleum. Characteristic.

Odour threshold

: No data available

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: No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point No data available Boiling point : No data available : 202 °C 395 °F Flash point Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available

Vapour pressure : Negligible vapour pressure at ambient conditions

Relative vapour density at 20 °C : > 10

Relative density : 0.868 g/cm³ at 15.6 °C (104 °F) Solubility : Water; < 0.1 % insoluble

Organic solvent:completely soluble

Log Pow : No data available

Log Kow : > 4

Viscosity, kinematic : 45 cSt at 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

1011 Reactivity

No additional information available

0.2 Chemical stability

Hazardous polymerisation does not occur.

103 Possibility of hazardous reactions

Not established.

10:42 Gondlione to avoid

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

10.5; Incompatible materials

Strong acid. Strong bases, sawdust, Oxidizing agents, strong,

10.6. Hazardbus dacomposition products.

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

TML information toxicological effects

Acute toxicity : Harmful if inhaled.

1:Deceme: homopolymer, hydro	genated (68037-01-4)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Libricalling olis, petrojeum, G20:50, hydrotreated neutral oil-based -IR346<3% (72823-87-1)		
LD50 oral rat	> 5000 mg/kg	

Lubricating offs patroleum, G20:50 hydrotteated neutral oil-based -IP346<3% (72823-87-1)		
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	

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classifiedBased on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classifiedBased on available data, the classification criteria are not met

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Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated exposure)

: Not classifiedBased on available data, the classification criteria are not met

Aspiration hazard

: Not classified

Potential Adverse human health effects and

symptoms

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

Symptoms/injuries after inhalation

: Excess inhalation might cause risk of chemicals pneumonitis.

Symptoms/injuries after skin contact

: Frequent or prolonged contact with skin may cause dermal irritation.

Symptoms/injuries after eye contact

: Oil mist contact may cause eye irritation.

SECTION 12: Ecological information

12.1 Toxicity

Weubricating rolls, patrolaum, 320,50, hydrofreatach jeutralioll-based::1R34653%/(7/2623:373)		
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)	

12.2 Persistence and degradability Lohn Deere Hydrau XR Persistence and degradability Not established.

123 Bloaccumulative potential

John Deere Hydrau XR	
Log Kow	> 4
Bioaccumulative potential	Not established.

12:4 Mppility/insol

No additional information available

12:5 Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations

131 Waste treatment methods

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.

Ecology - waste materials

: Avoid release to the environment, Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14/12 UNINUMBER STEEL STEEL

Not applicable

14.2 UN proper shipping name

Not applicable

14:3 Additional information :

: No supplementary information available.

Overland transport

Other information

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

76.4. US Federal regulations

SDacene, homopolymer, hydrogenated (68037-01-4)

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

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i⊫upricating oils, petrolaum, G20-50, hydrotreated neutral oil-based -IR346≤3% (72623-87-1)

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

16:2-International regulations

CANADA

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

Lubricating oils, petroleum, €20-50, hydrotreated neutral gif-based-IP346≤3% (72623-97-1)

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

EU-Regulations

1-Decene, homopolymer, hydrogenated (68037-01-4)

Listed on the EU - No-Longer Polymers List (67/548/EEC)

Eubricating: olis; petrolaum; C20:50; hydrotreated neutral oll-based = IR346<3%; (72623-87-1)

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

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

Acute Tox. 4 (Inhalation:dust,mist) H332

Aquatic Chronic 3

Full text of H-phrases: see section 16

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

R52/53

Full text of R-phrases: see section 16

15.2.2. National regulations

11 Decene, Komopálymen hydrogenáled (68037-01-4)

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)

-Lubricating oils, petroleum, G20-50, hydrotreated neutral oil-based -IP346<3% (72623-87-1)

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)

15:3:US State regulations

1:Decene; homopolymer; hydrogenated (68037-01/4)

U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term

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 frrit. 2A	Serious eye damage/eye irritation, Category 2A	
H304	May be fatal if swallowed and enters airways	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	

SDS US (GHS HazCom 2012)

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