

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

Use of the substance/mixture

: Mixture

Product form Trade name

: John Deere Hydrau XR

Product code

: TY27318, TY27319

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

13. Datalis of the supplier of the safety data sheet

: Synthetic VHVI Hydraulic Fluid

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

dan 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

24. Classification of the substance or mixture.

GHS-US classification

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

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 hazards 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

3.1. Substance

Not applicable

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Full text of H-phrases: see section 16

32 Mixture 1 Mix				
Name 2	Product identifier	%	GHS-US classification	
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil- based -IP346<3%	(CAS No) 72623-87-1	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

4:1. Description of first ald 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.

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

: Immediately call a POISON CENTER or doctor/physician.

Symptoms/injuries

4/2. Most important symptoms and effects, both acute and delayed

: 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

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 ansing from the substance or mixture Fire hazard

53. Advice for firefighters

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

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 precautions, protective equipment and energency 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 ...

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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5/2 Environmental 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 - Riecautions foesale nandling

Additional hazards when processed

Precautions for safe handling

: Special danger of slipping by leaking/spilling product.

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 safe 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

Storage area

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. Store at ambient temperature

Storage temperature Heat and ignition sources

Remove all sources of ignition. Protect against direct sunlight.

773 Specific end Dseis) with the control of the con

No additional information available

SECTION 8: Exposure controls/personal protection

8.2: Exposure controls

Appropriate engineering 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.



8.1 Sontrol parameters

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.

Respiratory protection

Wear 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

9/1. Information on basic physical and chemical properties

Physical state

Colour Odour

: Clear to light amber.

Odour threshold

: Petroleum. Characteristic.

: No data available

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pΗ No data available : No data available Relative evaporation rate (butylacetate=1) Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : 202 °C 395 °F 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

: No data available

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

92 Other information

No additional information available

SECTION 10: Stability and reactivity

IO1. Reactivity.

No additional information available

10:23 12 Griomical stability

Hazardous polymerisation does not occur.

10.3 Possibility of hazardous reactions

Not established.

Explosive limits

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.

11. Information on toxicological effects

10.5% Incompatible materials

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

0.0. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Acute toxicity : Harmful if inhaled.

: LDecene, homopolymer, hydrogenated (68037-01-4)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	

Lubricating pils, petroleum, \$20,50, hydrotreated neutral oil based HP346<3% (72623-87-1)		
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)

Specific target organ toxicity (repeated

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

exposure)

Not classified

Aspiration hazard

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

Lubricating oils, petroleum, C20:50, hydrotreated neutral oil-based P346<3% (72623-87-1)		
	> 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 John Deere Hydrau XR. Not established. Persistence and degradability

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

12.4 Mobility in soil No additional information available

12:5 Diberadverse effects : Avoid release to the environment. Other information

SECTION 13: Disposal considerations

1351 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

Not applicable

14:2 UNiproper shipping name

Not applicable

143. 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

A 5XP US Federal regulations and resident survey of the control of

□ 5Decene nomopolymer hydrogenated (68037-014)。

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

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Lubricating oils, petroleum, 320-50, hydrotreated neutral oil-based, 1R346<3% (72623-87-1)

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

15:2-International regulations.

CANADA

: Decene homopolymer flygrogenated (68037-01-4)

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

Lubricating oils, petroleum, 620-50, hydrotreated neutral oil based 3R346≤3% (72623-97-1)

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

EU-Regulations

Decene homopolymen hydrogenated (68037-01-4)

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

Lubricating oils, petroleum, C20-50, nyaromeated neutral oil-based -IP345<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

. 1-Decene homopolymer hydrogenated (68037-011-4)

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; netroleum, C20-50; hydrotreated neutral oil-based -IP346<3% (72623-87F1)

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, nydrogenated (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 Irrit. 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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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

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