John Deere Keep Clean

Safety Data Sheet

Section 1: Identification of the substance or mixture and of the supplier

Product Name:	**John Deere Keep Clean**
SDS Number:	TY26827, TY26828, TY26829, TY26830
Intended Use:	Solvent
Manufacturer:	Deere & Company One John Deere Place Moline, IL 61256
Emergency Number:	+1-309-748-5636

Section 2: Hazard(s) Identification

Classification

Flammable Liquid Category 4
Eye Irritation Category 2A
Skin Irritant Category 2
Aspiration Hazard Category 1
Specific Target Organ Toxicity Single Exposure Category 3 (Central Nervous System effects)

Hazards not Otherwise Classified
None

Label Elements



DANGER!
Combustible liquid.
Causes serious eye irritation.
Causes skin irritation.
May be fatal if swallowed and enters airways.
May cause drowsiness or dizziness.

Precautionary Phrases:
Keep away from flames and hot surfaces. No smoking.
Avoid breathing vapor, mist, or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection and protective clothing.
IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.
In case of fire: Use Carbon dioxide (CO2). Foam. Dry chemicals, or water fog to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

Section 3: Composition / Information on Ingredients

Component	CAS #	Concentration
Naphtha (petroleum), hydrotreated heavy, and Distillates (petroleum) hydrotreated light	64742-47-8 / 64742-48-9	60 – 75%
2-Ethylhexanol	104-76-7	1-10%
Mineral Oil	64742-54-7	<3%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: First Aid Measures

Eye Contact: Flush eyes with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin Contact: Rinse skin with plenty of soap and water. If skin irritation or redness develops, seek medical attention.

Inhalation (Breathing): If symptoms of exposure develop, remove to fresh air. Seek medical attention if breathing problems or irritation persist.

Ingestion (Swallowing): DO NOT induce vomiting. If the victim is fully conscious, have them rinse their mouth with water. Get immediate medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

Most important symptoms and effects:

Acute: Causes skin irritation. Excessive inhalation causes CNS (Central Nervous System) effects of drowsiness and dizziness. Direct eye contact causes irritation with pain, redness, and tearing. Aspiration hazard. May be fatal if swallowed and enters airways.

Delayed: None expected

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention will be required for ingestions.

Section 5: Fire-Fighting Measures

Specific hazards arising from the chemical: Combustible liquid. Keep away from ignition source and open flames. Move containers from fire area if you can do so without risk. Burning may produce carbon monoxide, and carbon dioxide.

Suitable extinguishing media: Use Carbon dioxide (CO2), Foam, Dry chemicals, or water fog to extinguish. Do not use direct water spray.

Special protective equipment and precautions for fire-fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Eliminate all sources of ignition. Ventilate area with explosion proof equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material. Wear appropriate protective clothing and equipment as described in Section 8 of this SDS.

Environmental Precautions: Stop leak if possible and without personal risk. Prevent entry into storm sewers and waterways. Report spill as required by local and national regulations.

Methods and materials for containment and cleaning up: Dike far ahead of liquid spill for later disposal. Soak up with inert material and place in suitable containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wear protective equipment as described in Section 8.

Empty containers may contain product residue. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, well-ventilated area, away from incompatible materials. Keep containers closed when not in use.

Section 8: Exposure Controls / Personal Protection

Exposure Guidelines:

Component	ACGIH	US OSHA
Naphtha (petroleum), hydrotreated heavy, and Distillates (petroleum) hydrotreated light	None established	500 ppm TWA (Manufacturer recommended)
2-Ethylhexanol	None established	None established
Mineral Oil	5 mg/m^3 TWA TLV (Inhalable)	5 mg/m^3 TWA PEL (as oil mist)

Appropriate engineering controls: General room ventilation sufficient to maintain exposure below exposure limits.

Personal protective equipment

Eye/Face Protection: Wear eye protection if contact is possible.

Skin/Hand Protection: Wear protective gloves to avoid skin contact.

Respiratory Protection: None under normal use conditions.

Other: None required under normal use conditions.

Section 9: Physical and Chemical Properties

Appearance:	Brown liquid.
Physical Form:	Liquid
Odor:	Hydrocarbon-like
Odor Threshold:	Not determined
Relative Density (water=1):	0.78 – 0.89
Decomposition temperature:	Not determined
Melting/Freezing Point:	Not determined
Initial Boiling Point/Range:	Not determined
Flash Point:	142–151 °F (70.6 °C)
Auto-ignition Temperature:	Not determined
Flammability (solid, gas):	Not applicable
Upper Explosive Limits (vol % in air):	6.0 %
Lower Explosive Limits (vol % in air):	0.6 %
Evaporation Rate (nBuAc=1):	Not determined
Vapor Density (air=1):	Not determined
Vapor Pressure:	Not determined

VOC	Not determined
Partition Coefficient (n-octanol/water) (Kow):	Not determined
Solubility in Water:	Insoluble.
pH:	Not determined
Viscosity:	Not determined

Section 10: Stability and Reactivity

Reactivity: Non-reactive under normal conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None known.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: May produce carbon monoxide, and carbon dioxide.

Section 11: Toxicological Information

Health Hazards:

Acute Toxicity	Hazard
Inhalation	Excessive inhalation causes CNS (Central Nervous System) effects of drowsiness and dizziness.
Skin Contact	Contact causes irritation.
Eye Contact	Contact causes eye irritation with redness, pain, and tearing.
Ingestion	Aspiration hazard. May be fatal if swallowed and aspirated to the lungs.

Chronic Effects: None expected.

Carcinogenicity: None of the components are listed as a carcinogen by IARC, NTP or OSHA

Germ Cell Mutagenicity: No effects expected.

Reproductive Toxicity: No effects expected.

Acute Toxicity Values:

Product ATE:
LD50 Oral > 5,000 mg/kg
LD50 Dermal >2,000 mg/kg
LC50 Inhalation > 10 mg/L

Naphtha (petroleum), hydrotreated heavy, and Distillates (petroleum) hydrotreated light:
LD50 Oral Rat: >5,000 mg/kg
LD50 Dermal Rabbit: > 2,000 mg/kg

2-Ethylhexanol:
LD50 Oral Rat: 2,047 mg/kg
LD50 Dermal Rat: > 3,000 mg/kg
LC50 Inhalation Rat> 0.89 - < 5 mg/L/ 4 hr.

Mineral Oil:
LD50 Oral Rat: 27,200 mg/kg
LD50 Dermal Guinea pig: 56,750 mg/kg

Section 12: Ecological Information

Ecotoxicity:
No data for product.
Naphtha (petroleum), hydrotreated heavy, and Distillates (petroleum) hydrotreated light:
LC50 Oncorhynchus mykiss (Rainbow trout) 10 mg/L/96 hr.
EC50 Daphnia magna 1.4 mg/L/ 48 hr.

2-Ethylhexanol:
LC50: Pimephales promelas (Fathead minnow) 28.2 mg/L/96 hr.
EC50 Daphnia magna 39 mg/L/ 48 hr.

Mineral oil:
EC50 Daphnia magna >1,000 mg/L/ 48 hr.

Bioaccumulative potential:
No data for product
2-Ethylhexanol: Bioconcentration Factor (BCF): 25.35

Persistence and degradability:
No data for product.
Naphtha (petroleum), hydrotreated heavy, and Distillates (petroleum) hydrotreated light: 61% in 28 days.
2-Ethylhexanol: Readily biodegradable
Mineral oil: 31% in 28 days.

Mobility in soil:
No data for product.

Other adverse effects: None

Section 13: Disposal Considerations

Waste Disposal Method: Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

Section 14: Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name:	Not regulated for transport (In non-bulk packaging)
UN/Id No:	None Required
Hazard Class or Division:	None Required
Packing Group:	None Required.
Labeling Requirements:	None Required

Dangerous Goods Description (IMDG)

Proper Shipping Name:	Environmentally Hazardous Substances, liquid, n.o.s. (Petroleum Naphtha)
UN/ID No:	UN3082
Hazard Class or Division:	9
Packing Group:	III
Labeling Requirements:	Class 9

Dangerous Goods Description (IATA)

Proper Shipping Name:	**Environmentally Hazardous Substances, liquid, n.o.s. (Petroleum Naphtha)**
UN/ID No:	**UN3082**
Hazard Class or Division:	**9**
Packing Group:	**III**
Labeling Requirements:	**Class 9**

Additional Shipping Description: Packages of <5L are exempt.

Section 15: Regulatory Information

U.S. Regulations:

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):
This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:
None.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health:	Yes
Chronic Health:	No
Fire Hazard:	Yes
Pressure Hazard:	No
Reactive Hazard:	No

CERCLA/SARA - Section 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372: None

EPA (CERCLA) Reportable Quantity (in pounds):
This material is not subject to CERCLA reporting requirements. Oil spills must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Section 16: Other Information

NFPA 704 Hazard Class: **Health: 2** **Flammability: 2** **Instability: 0**

Date of Issue:	20-Apr-2018
Status:	Revision 2
Previous Issue Date:	13-Oct-2016

Revised Sections or Basis for Revision: Revision to Section 14.