



HYPERSHIELD TRACTOR HYDRAULIC FLUID

Safety Data Sheet | SDS#: 4019 | Revision Date: February 24, 2023

Per OSHA Hazard Communication Standard, 29 CFR 1910.1200

Formulated by North American Lubricants (PURAMAX) — distributed under HYPERSHIELD brand by Shrader Tire & Oil

SECTION 1 IDENTIFICATION

Product Name:	HYPERSHIELD Tractor Hydraulic Fluid
Product Form:	Mixture
Recommended Use:	Hydraulic Fluid — Tractor Hydraulic, Wet Brake, Transmission, Final Drive, PTO
Restrictions on Use:	Consult supplier for applications other than those specified.
Product Grades (Supplier):	J20C – 2111473010 (Bulk), 2111473020 (330G Tote), 2111473018 (320G Tote), 2111473030 (Drum), 2111473050 (Pail)
SDS Number:	4019
Other Identifiers:	Universal Tractor Fluid (UTF); Tractor Fluid

Distributor / Company Identification

Shrader Tire & Oil

Toledo, OH

Customer Service: 800.589.6589

Customer.Service@Shrader.biz | ShraderTireandOil.com

Manufacturer

North American Lubricants Company

7337 E. Doubletree Ranch Road, Suite 180, Scottsdale, AZ 85258

(800) 430-6252 | www.nalube.com

Emergency Telephone

CHEMTREC: (800) 424-9300 or (703) 527-3887

SECTION 2 HAZARDS IDENTIFICATION

Classification (GHS-US):	Not Classified
Hazard Pictograms:	None Required
Signal Word:	Not Hazardous
Hazard Statements:	None Required
Precautionary Statements:	P273 – Avoid release to the environment. P501 – Dispose of contents/container per applicable local, regional, national, and international regulations.
Other Hazards:	The mixture consists of substances capable of producing an aspiration hazard. Aspiration may result in chemical pneumonia, severe lung damage, respiratory failure, or death.
Unknown Acute Toxicity:	9.73% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Product Form: Mixture

CAS Number	Component Name	% (w/w)	GHS-US Classification
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64742-58-1	Lubricating oils, petroleum, hydrotreated spent	85–88%	Not Classified
Mixture	Mineral Oil	2.25–4.5%	Not Classified
Proprietary	Zinc dialkyl dithiophosphate	0.75–1.5%	Aquatic Chronic 3, H402
Proprietary	Calcium long-chain alkylphenate sulfide	0.375–0.75%	Not Classified
64742-54-7	Petroleum distillates, hydrotreated heavy paraffinic	0.15–0.21%	Not Classified

* Specific chemical identity and/or exact percentages withheld as trade secret per 29 CFR 1910.1200.

SECTION 4 FIRST AID MEASURES

Description of First Aid Measures:

General:	Never give anything by mouth to an unconscious person. Seek medical advice if unwell.
Inhalation:	Remove to fresh air. Keep at rest in a comfortable breathing position. Obtain medical attention if breathing difficulty persists.
Skin Contact:	Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops.
Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Obtain medical attention.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or physician.

Most Important Symptoms/Effects:

- Inhalation: Overexposure may be irritating to the respiratory system.
- Skin Contact: Repeated or prolonged contact may cause irritation.
- Eye Contact: Direct contact is likely irritating.
- Ingestion: Likely harmful; may have adverse gastrointestinal effects.
- Chronic Symptoms: No known significant effects or critical hazards.

SECTION 5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use media appropriate for surrounding fire.
Unsuitable Extinguishing Media:	Do not use a heavy water stream — may spread fire.
Fire Hazard:	Not flammable but will support combustion.
Explosion Hazard:	Product is not explosive.
Reactivity:	Hazardous reactions will not occur under normal conditions.
Hazardous Combustion Products:	Fumes, smoke, oxides of carbon and hydrocarbons.
Advice for Firefighters:	Exercise caution. Do not enter fire area without proper PPE including respiratory protection. Use water spray or fog for cooling exposed containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use appropriate PPE. Evacuate unnecessary personnel.
Environmental Precautions:	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waterways.

Containment & Cleanup:	Contain spills with dikes or absorbents to prevent migration into sewers or streams. Clean up immediately and dispose of waste safely. Transfer to suitable container for disposal.
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SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:

- Any proposed use in elevated-temperature processes should be thoroughly evaluated.
- Practice good housekeeping — spillage can be slippery on smooth surfaces wet or dry.
- Handle per good industrial hygiene and safety procedures. Wash hands before eating, drinking, smoking, or leaving work.

Storage Conditions:

- Store in a dry, cool, well-ventilated place. Keep container closed when not in use.
- Keep away from direct sunlight, extreme temperatures, and incompatible materials.

Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Specific End Use:	Tractor Hydraulic Fluid

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

No established exposure limits from manufacturer, supplier, or advisory agencies (ACGIH, NIOSH, OSHA, Canadian/Mexican government) for substances in Section 3.

Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Provide emergency eyewash and safety showers near potential exposure areas.
Eye/Face Protection:	Chemical goggles or safety glasses.
Skin/Hand Protection:	Wear chemically resistant protective gloves and suitable protective clothing.
Respiratory Protection:	Use NIOSH-approved respirator or SCBA whenever exposure may exceed established OELs.
Environmental Controls:	Do not allow product to be released into the environment.
Consumer Controls:	Do not eat, drink, or smoke during use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Amber
Odor:	Slight Hydrocarbon
Flash Point:	>204°C / >400°F
Specific Gravity:	0.84–0.86
Kinematic Viscosity @ 40°C:	55 cSt
Kinematic Viscosity @ 100°C:	9.2 cSt
Viscosity Index:	141
Pour Point:	-40°C / -40°F
Solubility:	Negligible in water
Explosive Properties:	Not explosive
Flammability (solid/gas):	Not available
pH:	Not available
Vapor Pressure:	Not available

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Hazardous reactions will not occur under normal conditions.
Chemical Stability:	Stable under recommended handling and storage conditions (see Section 7).
Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, and other ignition sources.
Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Decomposition Products:	No decomposition expected under normal use and storage conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified.
Skin Corrosion/Irritation:	Not classified.
Eye Damage/Irritation:	Not classified.
Sensitization:	Not classified.
Mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive Toxicity:	Not classified.
STOT – Single Exposure:	Not classified.
STOT – Repeated Exposure:	Not classified.
Aspiration Hazard:	Not classified.
Chronic Symptoms:	Not classified.

LD50 / LC50 Data:

Component (CAS)	Test	Result
Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)	LD50 Oral Rat	>2000 mg/kg
Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)	LD50 Dermal Rabbit	>2 g/kg
Lubricating oils, petroleum, hydrotreated spent (64742-58-1)	LD50 Oral Rat	>5000 mg/kg
Lubricating oils, petroleum, hydrotreated spent (64742-58-1)	LD50 Dermal Rabbit	>5 g/kg

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity – General:	Toxic to aquatic life (zinc dialkyl dithiophosphate component).
Zinc dialkyl dithiophosphate:	LC50 Fish (96h): 1.0–5.0 mg/L (static); 10.0–35.0 mg/L (semi-static). EC50 Daphnia (48h): 1–1.5 mg/L.
Lubricating oils (64742-58-1):	LC50 Fish (96h) >5000 mg/L; EC50 Daphnia (48h) >1000 mg/L.
Petroleum distillates (64742-54-7):	LC50 Fish (96h) >5000 mg/L; EC50 Daphnia (48h) >1000 mg/L.

Persistence & Degradability:	Not available.
Bioaccumulative Potential:	Not available.
Mobility in Soil:	Not available.
Other:	Avoid release to the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Do not empty into drains. Do not dispose of waste into sewer. Dispose of this material and its container in a safe way, in accordance with all local, regional, national, provincial, territorial, and international regulations.

SECTION 14 TRANSPORT INFORMATION

DOT (USA):	Not regulated for transport
IMDG:	Not regulated for transport
IATA:	Not regulated for transport
TDG (Canada):	Not regulated for transport

SECTION 15 REGULATORY INFORMATION

SARA Section 311/312:	Not Classified
US State Regulations:	None noted.
WHMIS Classification:	Not Classified (product level)
Zinc dialkyl dithiophosphate:	Listed on Canadian DSL. WHMIS: Class D, Division 2, Subdivision B.
Lubricating oils (64742-58-1):	Listed on Canadian DSL. WHMIS: Uncontrolled.
Petroleum distillates (64742-54-7):	Listed on Canadian DSL. WHMIS: Uncontrolled.

SECTION 16 OTHER INFORMATION

Revision Date:	February 24, 2023 (SDS version 1.0)
Original SDS:	SDS# 4019, North American Lubricants Company (PURAMAX Tractor Hydraulic Fluid)
Revision Summary:	Product name updated to HYPERSHIELD Tractor Hydraulic Fluid. Section 1 distributor updated to Shrader Tire & Oil. All technical content, GHS classifications, and regulatory data retained from original NAL SDS.
Distributed by:	Shrader Tire & Oil, Toledo, OH ShraderTireandOil.com 800.589.6589
GHS Phrases:	P273 – Avoid release to the environment. P501 – Dispose of contents/container per applicable regulations.

This information is based on current knowledge of North American Lubricants Company and is intended to describe the product for health, safety, and environmental purposes only. It should not be construed as guaranteeing any specific property of the product. Prepared per OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS US 2012 & WHMIS 2).