MATERIAL SAFETY DATA SHEET



1. Product and company identification

PRODUCT NAME	: Nemco Synthetic-Blend HVI Hydraulic Fluids HVI15, 22
PRODUCT CODE	: 0259,0266
SUPPLIER	: NEMCO RESOURCES LTD.
	25 Midland Street
	Winnipeg, Manitoba
	R3E 3J6 Canada
Date Issued	: October, 2013
Emergency (call collect)	: 204-788-1030
CANUTEC	: 613-996-6666

2. Hazards identification

EMERGENCY OVERVIEW:

Physical State Color Odor OSHA statues	::	Viscous liquid Amber Mild petroleum oil like Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous
WHMIS(Canada)	:	Not controlled under WHMIS(Canada)
POTENTIAL ACUTE HEALTH EFF	ECTS	
Inhalation	:	No known significant effects or critical hazards
Ingestion	:	No known significant effects or critical hazards
Eye	:	Slightly irritating to the eyes
Skin	:	Slightly irritating to the skin
POTENTIAL CHRONIC HEALTH EF	FEC	TS
Chronic effects	:	No known significant effects or critical hazards
Carcinogenicity	:	Not listed as carcinogenic by OSHA, NTP or IARC
Mutagenicity	:	No known significant effects or critical hazards
Developmental effects	:	No known significant effects or critical hazards
Teratogenicity	:	No known significant effects or critical hazards
Fertility effects	:	No known significant effects or critical hazards
EFFECTS OF OVEREXPOSURE	:	Not irritating according to U.S. and EC guidelines

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CASRN	Conentration
Lubricant Base Oil	VARIOUS	>90%
Additives	PROPRIETARY	<10%

4. FIRST AID MEASURES

EYE CONTACT	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately	
SKIN CONTACT	: Wash contact areas with soap and water. High-pressure accidental injection through the skin requires immediate medical attention for possible incision, irrigation and/or debridement	
INHALATION	: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.	
INGESTION	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

5. FIRE FIGHTING MEASURES

NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0 (0-Minimal, 1-slight, 2-Moderate, 3-Serious, 4-Severe)

EXTINGUISHING MEDIA	:	Carbon dioxide, foam, dry chemical and water fog
SPECIAL FIRE FIGHTING PROCEDURES	:	Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SPECIAL REMARKS ON FIRE HAZARDS		Low fire hazard. This material must be heated before ignition will occur.
SPECIAL REMARKS ON EXPLOSION HAZARDS	:	Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat orsources of ignition
Flammable limits	:	LEL: NA, UEL: NA
HAZARDOUS DECOMPOSITION PRODUCTS	:	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), phosphorus oxides (POx), calcium oxides (CaOx), zinc oxides (ZnOx), silicon oxides (SiOx), aldehydes, ketones, smoke and irritating vapours as products of incomplete combustion

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES	:	Report spills as required to appropriate authorities. Canadian Regulations require immediate reporting of all oil spills that could reach any waterway, including wetlands and intermittent dry creeks.
PERSONAL PRECAUTIONS	:	See Section 8
ENVIRONMENTAL PRECAUTIONS		Prevent spills from entering storm sewers or drains and contact with soil
Methods for cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Note: This product does NOT contain any hazardous substances reportable under CERCLA.

7. HANDLING AND STORAGE

HANDLING	:	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
STORAGE	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION	:	No special requirements under ordinary conditions of use and with adequate ventilation
RESPIRATORY PROTECTION	:	No special requirements under ordinary conditions of use and with adequate ventilation
EYE PROTECTION	:	Normal industrial eye protection practices should be employed
SKIN PROTECTION	:	No special equipment required. However, good personal hygiene practices should always be followed
EXPOSURE LIMITS	:	This product does not contain any components, which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	:	Liquid
ODOR THRESHOLD-ppm	:	NE
рН	:	Not available
BOILING POINT C (F)	:	Not available
MELTING POINT C (F)	:	Not available
FLASH POINT C (F)	:	> 207(404)
FLAMMABILITY	:	Not established
AUTO FLAMMABILITY	:	Not established
OXIDIZING PROPERTIES	:	Not available
VAPOR PRESSURE	:	Not available
-mmHg 20 C VAPOR DENSITY:		Not available
VAPOR DENSITY:	•	Not available
RELATIVE DENSITY, 15 C	:	0.850-0.880
SOLUBILITY IN WATER	:	Negligible
EVAPORATION RATE	:	Not established
Viscosity, @ 40 °C cSt	:	15: 15.2; 22: 22.6;
Pour Point, °C	:	-48 to -42
FREEZING POINT C(F)	:	Not established

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING EPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.)	:	Stable
CONDITIONS TO AVOID	:	Extreme heat
INCOMPATIBILITY (MATERIALS TO AVOID)	:	Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	:	Carbon monoxide
HAZARDOUS POLYMERIZATION	:	Not known to occur

11. TOXICOLOGICAL DATA

ACUTE TOXICOLOGY

: Greater than 2000 mg/kg

Dermal LD50 Inhalation LC50

Oral LD 50

Greater than 2000 mg/kgGreater than 5 mg/L

CHRONIC TOXICOLOGY

Lubricant base oil

Carcinogenicity: The petroleum base oil contained in this product has been highly refined by a variety of process including severe hydrocracking / hydroprocessing to reduce aromatics and improve performance characteristics. Under normal conditions of use, no significant health hazards are expected. All of oils meet the IP-346 criteria of less than 3% PAH's and are not considered carcinogens by NTP, IARC or OSHA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS	:	Not known significant effects or critical hazards
<u>Aquatic ecotoxicity</u> Conclusion / Summary	:	Not available
<u>Biodegradability</u> Conclusion / Summary	:	Not available
Other adverse effects	:	Not known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL

This product is suitable for burning in an enclosed, controlled burner for fuel value and for recycling at an approved facility. In addition, it can be disposed of at an approved waste disposal facility. Land farming and processing through sewage treatment facilities may be available disposal options but necessary approvals must first be obtained from appropriate regulatory authorities. Specific characteristics of the waste at the time of disposal may affect the availability of the above options

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13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION for additional handling information and protection of employees.

14. TRANSPORT INFORMATION

USA DOT : NOT REGULATED BY USA DOT

RID/ADR : NOT REGULATED BY RID/ADR

IMO : NOT REGULATED BY IMO

IATA : NOT REGULATED BY IATA

15. REGULATORY INFORMATION

United States HCS Classification	:	Not regulated
Canada WHMIS (Canada)	:	Not controlled under WHMIS (Canada).

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 Regulations.

<u>EU regulations</u> Risk phrases International regulations	:	This product is not classified according to EU legislation
Canada inventory	:	All components are listed or exempted
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Europe inventory	:	All components are listed or exempted

16. OTHER INFORMATION

 Emergency Overview
 NFPA

 This material is not considered hazardous according to OSHA criteria.
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16. OTHER INFORMATION

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses, which infringe valid patents, or as extending license under valid patents. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Nemco assumes no responsibility for accuracy of information unless the document is the most current available from an official Nemco distribution system. Nemco neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any country except Canada.

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