

MATERIAL SAFETY DATA SHEET



1. Product and company identification

PRODUCT NAME : Fully synthetic Industrial Gear oil ISO VG220
PRODUCT CODE : 1337
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. Composition/information on ingredients

General chemical description:

Proprietary synthetic gear lubricant

COMPONENT:	CAS-No.	CONCENTRATION (Wt. %):
Proprietary component(s)		100

3. Hazards identification

EMERGENCY OVERVIEW

Low hazard for usual industrial or commercial handling.

State:
liquid

Odor:
of hydrocarbons

Color(s):
amber

Routes of entry:

Skin contact

Potential Health Acute Effects:

Inhalation:

May cause respiratory irritation.

Skin contact:

May cause slight irritation.

Eye contact:

May cause slight irritation.

Ingestion:

May be harmful if swallowed in large quantities.

Potential Chronic Health Effects:

None known

4. First aid measures

After inhalation:

Immediately remove victim to fresh air.
If breathing has stopped, administer artificial respiration.
Seek medical attention immediately.

After skin contact:

Wash thoroughly with soap and water.

After eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

After ingestion:

Do not induce vomiting.
Call a physician or poison control center immediately.
Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.

5. Fire fighting measures

Flash point:

449,6 °F (232,00 °C)
;; Flash Point, Pensky-Martens

Autoignition temperature:

Not available

Flammable/Explosive limits:

Lower limits:
Not determined.
Upper limits:
Not determined.

Suitable extinguishing media:

Water Spray
Foam.
Carbon dioxide.
Dry Chemical

Unusual fire or explosion hazards:

None known

Hazardous combustion products:

nitrogen oxides, phosphorus oxides, carbon monoxide, Carbon dioxide., Sulphur oxides

Additional fire fighting advice:

In case of fire, keep containers cool with water spray.
If a spill or leak has not ignited, use water spray to disperse the vapors.
Water spray may be used to flush spills away from fire.

6. Accidental release measures

Personal precautions:

Wear adequate personal protective clothing and equipment.

Environmental precautions:

Add dry material to absorb spill (if large spill, dike to contain).

Methods for cleaning and take-up:

Pick up spilled material and containerize for recovery or disposal.
Flush area with water to remove residues.

7. Handling and storage

Handling:

Handling advice:

Ensure adequate ventilation.
Container may be hazardous when emptied.

Storage:

Storage conditions to keep:

Store in sealed original container.

8. Exposure controls/personal protection

Indication for system design:

Ensure adequate ventilation.

Components with specific control parameters for workplace:

Valid for USA

Name on list	Basis	Type	Value	Category	Remarks
OIL MIST, MINERAL	ACGIH	Time Weighted Average (TWA).	5 mg/m ³		
OIL MIST, MINERAL	ACGIH	Short Term Exposure Limit (STEL):	10 mg/m ³		

Personal protection measures:

Respiratory protection:

If exposed to aerosol or mist, wear NIOSH approved Category 23C respirator, excluding single use or disposable respirators in accordance with 30 CFR 11(i).
The respirator shall be equipped with combination cartridges approved for paints, enamels and lacquers unless air-supplied respirator is selected.

Hand protection:
Protective gloves made of rubber.

Eye protection:
Safety glasses with side shields.

Skin protection:
Wear suitable protective clothing.

9. Physical and chemical properties

General description:

State: liquid
Odor: of hydrocarbons
Color(s): amber

Designation	Value	Method
Melting point	-31 °C (-23.8 °F)	
Density	0.87 g/cm ³	no information

10. Stability and reactivity

Reactivity:

Materials to avoid:

Oxidizers
Bases
Strong Acids

Hazardous polymerization:

Will not occur

11. Toxicological information

General toxicological information:

No toxicity information available or testing conducted on this product.
Any health or toxicological information included in Section 3 was based on data associated with the components or an analogous product.

Acute oral toxicity:

LD50 > 2000 mg/kg body weight

Skin irritation:

not irritating

Eye irritation:

not irritating

12. Ecological information

General ecological information:
no data available

Acute fish toxicity:
LC50 > 10 - <= 100 mg product/l.

Acute bacterial toxicity:
EC0 > 10 - <= 100 mg product/l.

Ultimate biodegradation:
The total of the organic components contained in the product achieve values below 60% BOD/COD or CO2 liberation, or below 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are not reached.

13. Disposal considerations

Waste disposal of product:
Avoid landfilling liquids.
Reclaim where possible.
All recovered material should be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

14. Transport information

General information:
Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR, CFR and TDG.

15. Regulatory information

TSCA Inventory Status:	This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.		
SARA 311/312 Hazard Categories:	Immediate Health		
TSCA 12(b) Components:	none		
SARA 313 Toxic Chemicals:	none		
SARA 302 Extremely Hazardous Substances:	none		
CERCLA Hazardous Chemicals:	US. EPA CERCLA Hazardous Substances (40 CFR 302)		
	LEAD AND COMPOUNDS	CAS: 7439-92-1	<1PPM
	CADMIUM AND COMPOUNDS	CAS: 7440-43-9	<1PPM
	ARSENIC AND COMPOUNDS	CAS: 7440-38-2	<1PPM

BENZENE (INCLUDING BENZENE FROM GASOLINE)	CAS: 71-43-2	<1PPM
ETHYL ACRYLATE	CAS: 140-88-5	<1PPM
ETHYLBENZENE	CAS: 100-41-4	<1PPM

California Proposition 65:

This product contains the following chemical/s known to the State of California to cause cancer and/or birth defects or other reproductive harm.

LEAD (ORAL)	CAS: 7439-92-1	<1PPM
CADMIUM (ORAL)	CAS: 7440-43-9	<1PPM
ARSENIC (INHALATION)	CAS: 7440-38-2	<1PPM
BENZENE (ORAL)	CAS: 71-43-2	<1PPM
ETHYL ACRYLATE	CAS: 140-88-5	<1PPM
ETHYLBENZENE	CAS: 100-41-4	<1PPM

16. Other information

NFPA Rating (US)	Value
Health	1
Fire	1
Reactivity	0
Special Hazard	

HMIS Rating (US)	Value
Health	1
Flammability	1
Reactivity	0

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.

FOR FURTHER INFORMATION, CONTACT:

Date of printing : October 2013
Date of issue : October 2013
Supplier : **Nemco Resources Ltd**
Address : 25 Midland Street
Winnipeg, Manitoba
R3E 3J6 CANADA
Telephone : 204-788-1030
Fax : 204-788-1593