# **SAFETY DATA SHEET**

CITGO North Star® Refrigeration Oil 32



#### Section 1. Identification

GHS product identifier	: CITGO North Star® Refrigeration Oil 32
Synonyms	: Compressor Lubricant
Code	: 643102001
MSDS #	: 643102001
Supplier's details	: CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com
Emergency telephone number	: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only)

# Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: Warning
Hazard statements	<ul> <li>Injection under the skin can cause severe injury.</li> <li>Most damage occurs in the first few hours.</li> <li>Initial symptoms may be minimal.</li> </ul>
Precautionary statements	
General	: Avoid contact with eyes, skin and clothing. May be harmful if swallowed. IF IN EYES: Rinse cautiously with water for several minutes. IF SWALLOWED: DO NOT induce vomiting. After handling, always wash hands thoroughly with soap and water. If you feel unwell, seek medical attention and show the label when possible. Keep out of reach of children.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	<ul> <li>Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.</li> </ul>
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: Injection of petroleum hydrocarbons requires immediate medical attention

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Compressor Lubricant
identification	

CAS number/other identifie	<u>rs</u>				
CAS number	: Not applicat	ble.			
Date of issue/Date of revision	: 10/2/2014.	Date of previous issue	: No previous validation.	Version : 1	1/9

## Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	<ul> <li>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</li> </ul>

#### Most important symptoms/effects, acute

Detential coute health offer		
Potential acute health effect		
Eye contact	No known significant effects or critical hazards.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	Injection of pressurized hydrocarbons can cause severe permanent tissue da Initial symptoms may be minor.	image.
Ingestion	No known significant effects or critical hazards.	
<u>Over-exposure signs/symp</u>	<u>s</u>	
Eye contact	No specific data.	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	No specific data.	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	ge
Specific treatments	Treat symptomatically and supportively.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable trainin	g.

#### See toxicological information (Section 11)

Section 5. Fire-fighting measures	
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing : None known. media

#### Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and 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. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### Section 7. Handling and storage

#### Precautions for safe handling **Protective measures** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is Advice on general occupational hygiene handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, Store in accordance with local regulations. Store in original container protected from 12 including any 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 incompatibilities ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

None identified.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection		
Hand protection	1	Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

Physical state	: Liquid.
Color	: Light amber
Odor	: Mild petroleum odor
рН	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 165°C (329°F) [Pensky-Martens.] Open cup: 188°C (370.4°F) [Cleveland.]
Evaporation rate	: <1 (n-butyl acetate = 1)
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.0013 kPa (<0.01 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 0.91
Density lbs/gal	: Estimated 7.5 lbs/gal
Gravity, °API	: Estimated 26 @ 60 F
Solubility	: Insoluble in the following materials: cold water.
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#### Section 9. Physical and chemical properties

Viscosity

: Kinematic (40°C (104°F)): 0.32 cm<sup>2</sup>/s (32 cSt)

Viscosity SUS : Estimated 270 SUS @104 F

#### Section 10. Stability and reactivity

Reactivity	: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

Acute toxicity       i       Distillates (petroleum), hydrotreated heavy naphthenic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.         Irritation/Corrosion       Irritation/Corrosion         Skin       :       No additional information.         Eyes       :       No additional information.         Eyes       :       No additional information.         Skin       :       No additional information.         Skin       :       No additional information.         Respiratory       :       No additional information.         Skin       :       No additional information.         Respiratory       :       No additional information.         Mutagenicity       :       No additional information.         Conclusion/Summary       :       No additional information.         Carcinogenicity       :       Conclusion/Summary       :       No additional information.         Conclusion/Summary       :       No additional informa		from highly refined oils are reported to have low acute and sub-acute toxicities in
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Skin: No additional information.Eyes: No additional information.Respiratory: No additional information.SensitizationSkin: No additional information.Respiratory: No additional information.Mutagenicity: No additional information.Conclusion/Summary: No additional information.Conclusion/Summary: No additional information.Conclusion/Summary: No additional information.Reproductive toxicity: No additional information.Conclusion/Summary: No additional information.Reproductive toxicity: No additional information.Conclusion/Summary: No additional information.Reproductive toxicity: No additional information.Conclusion/Summary: No additional information.Specific target organ toxicity (single exposure) Not available.		of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or
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Respiratory       :       No additional information.         Sensitization       :       No additional information.         Skin       :       No additional information.         Respiratory       :       No additional information.         Mutagenicity       :       No additional information.         Conclusion/Summary       :       No additional information.         Carcinogenicity       :       No additional information.         Conclusion/Summary       :       No additional information.         Reproductive toxicity       :       No additional information.         Conclusion/Summary       :       No additional information.         Teratogenicity       :       No additional information.         Conclusion/Summary       :       No additional information.         Specific target organ toxicity (single exposure)       Not available.	Skin	: No additional information.
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Skin       : No additional information.         Respiratory       : No additional information.         Mutagenicity       Conclusion/Summary         Conclusion/Summary       : No additional information.         Carcinogenicity       Conclusion/Summary         Conclusion/Summary       : No additional information.         Reproductive toxicity       Conclusion/Summary         Conclusion/Summary       : No additional information.         Teratogenicity       Conclusion/Summary         Conclusion/Summary       : No additional information.         Specific target organ toxicity (single exposure)         Not available.	Respiratory	: No additional information.
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Carcinogenicity         Conclusion/Summary       : No additional information.         Reproductive toxicity         Conclusion/Summary       : No additional information.         Teratogenicity         Conclusion/Summary       : No additional information.         Teratogenicity         Conclusion/Summary       : No additional information.         Specific target organ toxicity (single exposure)         Not available.	Mutagenicity	
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Conclusion/Summary       : No additional information.         Teratogenicity         Conclusion/Summary       : No additional information.         Specific target organ toxicity (single exposure)         Not available.	· · · · · · · · · · · · · · · · · · ·	
Teratogenicity         Conclusion/Summary       : No additional information.         Specific target organ toxicity (single exposure)         Not available.		: No additional information.
Specific target organ toxicity (single exposure) Not available.	· · · · · · · · · · · · · · · · · · ·	
Not available.	Conclusion/Summary	: No additional information.
Not available.	Specific target organ tox	icity (single exposure)
Specific target organ toxicity (repeated exposure)		
opecine target organ toxicity (repeated exposure)	Specific target organ tox	icity (repeated exposure)
Not available.		
Aspiration hazard		
Not available.	Not available.	

## Section 11. Toxicological information

Information on the likely routes of exposure	:	Routes of entry anticipated: Dermal.
Potential acute health effects		
Eye contact	÷	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.
Ingestion	:	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

#### Potential chronic health effects

# Section 12. Ecological information

<u>Toxicity</u>	
<b>Conclusion/Summary</b>	: Not available.
<b>.</b>	
Persistence and degradabi	lity
Conclusion/Summary	: Not available.
Bioaccumulative potential	
Not available.	
Mobility in soil	
	. Natavailable
Soil/water partition coefficient (Koc)	: Not available.
Other adverse effects	: No known significant effects or critical hazards.
Section 13. Dispo	osal considerations
Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products

	the sewer u	nless fully compliant with	n the requirements of all a d. This material and its co	uthorities with juris	diction.
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via a licensed waste disposal contractor. Waste should not be disposed of untreated to

#### Section 13. Disposal considerations

of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	<u>Limited quantity</u> Yes.	-	-

# Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

#### Section 15. Regulatory information

 U.S. Federal regulations
 : United States inventory (TSCA 8b): All components are listed or exempted. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

Composition/informa	ation on ingredients
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Not applicable.
Composition/informa	ation on ingredients
State regulations	
Massachusetts	None of the compor

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
<u>California Prop. 65</u>	

Date of issue/Date of revision

## Section 15. Regulatory information

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ethyl acrylate	<0.001	Yes.	No.	No.	No.
nternational regulations	I				1
	Japan i Korea i Malays	nventory: A nventory: A ia Inventory	Il components are lis Il components are lis (EHS Register): No	sted or exempted. ot determined.	
	Philipp Taiwan	ines invento inventory (	ory (PICCS): All com CSNN): Not determi	ponents are listed or ex	ts are listed or exempte xempted.
Canada inventory	Philipp Taiwan	ines invento inventory (	ory (PICCS): All com	ponents are listed or ex	
Canada inventory EU Inventory	Philipp Taiwan : All com	ines invento inventory ( ponents are	ory (PICCS): All com CSNN): Not determi	ponents are listed or ex	

#### Section 16. Other information

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of issue/Date of revision	: 10/2/2014.
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

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#### Section 16. Other information

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