

MATERIAL SAFETY DATA SHEET

Issue Date: 06/12/2012

Section 1 Product and Company Identification

Product Name: G&G Royal R&O 320

Product Code: 323

Company Identification

G&G Oil Co. of Indiana, Inc.
P.O. Box 71
Muncie, IN 47308

Emergency Phone Number: (765) 288-7795

Section 2 Ingredients

	CAS#	Percent
Residual Oils (petroleum), Solvent Dewaxed	64742-62-7	45-55%
Severely Solvent refined residuum	64742-01-4	40-55%
Distillates (petroleum), solvent-refined heavy paraffinic	64741-89-4	1-5%
Proprietary additives		

Section 3 Hazards Identification

EMERGENCY OVERVIEW

Appearance & Odor: Brown liquid, Mild Hydrocarbon Odor.

Health Hazards: No known immediate health hazards.

Physical Hazards: No known physical hazards.

NFPA Rating (Health, Fire, Reactivity): 1, 1, 0

Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

Inhalation:

Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

Eye Irritation:

Lubricating oils are generally considered no more than minimally irritating to the eyes.

Skin Contact:

Lubricating oils are generally considered no more than minimally irritating to the skin. Prolonged and repeated contact may result in defatting and drying of the skin that may cause various skin disorders such as dermatitis, folliculitis or oil acne.

Ingestion:

Lubricating oils are generally no more than slightly toxic if swallowed.

Signs and Symptoms:
Irritation as noted above.

Aggravated Medical Conditions:

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

For additional health information, refer to section 11.

Section 4 First Aid Measures

Inhalation:

Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Skin:

Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

Eye:

Flush with water. If irritation occurs, get medical attention.

Ingestion:

Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention.

Note to Physician:

In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

Section 5 Fire Fighting Measures

Flash Point (Method): >400 °F / >204.44 °C [Cleveland Open Cup]

Extinguishing Media:

This material is non-flammable. Material will float and can be re-ignited on surface of water. Use water fog, alcohol foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.

Fire Fighting Instructions:

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. This material is non-flammable.

Unusual Fire Hazards:

Material may ignite when preheated.

Section 6 Accidental Release Measures

Protective Measures:

May burn although not readily ignitable.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

Spill Management:

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand, or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

Reporting:
 CERCLA: Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund).
 CMAA: This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

Section 7 Handling and Storage

Precautionary Measures:
 Wash with soap and water before eating, drinking, smoking, applying cosmetics. Or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking.

Storage:
 Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

Container Warnings:
 Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, weld or perform similar operations on or near containers.

Section 8 Exposure Controls/Personal Protection

Chemical	Limit	TWA	STEL	Ceiling	Notation
Oil mist, mineral	ACGIH TLV	5 mg/m ³	10 mg/m ³		
Oil mist, mineral	OSHA PEL	5 mg/m ³			

Decomposition Product	Limit	TWA	STEL	Ceiling	Notation
Hydrogen sulfide	ACGIH - TLV	10 ppm	15 ppm		
Hydrogen sulfide	OSHA - PEL IS	10 ppm	15 ppm		

Decomposition Product	Method	Condition
Hydrogen sulfide	Elevated Temperatures	> 100 Degrees F

Exposure Controls:
 Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Personal Protection:
 Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

Eye Protection:
 Chemical Goggles, or Safety glasses with side shields

Skin Protection:
 Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Respiratory Protection:
 If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Section 9 Physical and Chemical Properties

Appearance & Odor: Brown liquid, Mild Hydrocarbon Odor.
Substance Chemical Family: Lubricants

Flash Point	> 400 °F [Cleveland Open Cup]	Odor	Mild Hydrocarbon Odor.
Pour Point	10 °F - -20 °F [D-0097-00]	Specific Gravity	0.88 - 0.9

Section 10 Reactivity and Stability

Stability:
 Material is stable under normal conditions.

Conditions to Avoid:
 Avoid heat and open flames.

Materials to Avoid:
 Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:
 Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Aldehydes, Carbon Monoxide, Carbon Dioxide, Hydrogen Sulfide, Ketones and other unidentified organic compounds may be formed upon combustion.

Section 11 Toxicological Information

TEST	Result	Acute Toxicity	
		OSHA Classification	Material Tested
Dermal LD50	>5.0 g/kg (Rabbit)	Non-Toxic	Based on component(s)
Oral LD50	>5.0 g/kg (Rat)	Non-Toxic	Based on component(s)

Carcinogenicity Classification			
Chemical Name	NTP	IARC	ACGIH
Hydraulic Oil	No	Not reviewed	No
			OSHA

Section 12 Ecological Information

Environmental Impact Summary:
There is no ecological data available for this product. However, this product is an oil. It is persistent and does not readily biodegrade. However, it does not bioaccumulate.

Section 13 Disposal Considerations

RCRA Information:
Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

Section 14 Transport Information

US Department of Transportation Classification
This material is not subject to DOT regulations under 49 CFR Parts 171-180.

Oil: This product is an oil under 49CFR (DOT) Part 180. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

International Air Transport Association
Not regulated under IATA rules.

International Maritime Organization Classification
Not regulated under International Maritime Organization rules.

Section 15 Regulatory Information

OSHA Classification:
Federal Regulatory Status

Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200, because it carries the occupational exposure limit for mineral oil mist.

Ozone Depleting Substances (40 CFR 82 Clean Air Act):
This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.
Superfund Amendment & Reauthorization Act (SARA) Title III:
There are no components in this product on the SARA 302 list.

SARA Hazard Categories (31/1312):				
Immediate Health	Delayed Health	Fire	Pressure	Reactivity
NO	NO	NO	NO	NO

SARA Toxic Release Inventory (TRI) (313):
There are no components in this product on the SARA 313 list.

Toxic Substances Control Act (TSCA) Status:
All component(s) of this material is (are) listed on the EPA/TSCA Inventory of Chemical Substances.

Other Chemical Inventories:
Australian AICS, Canadian DSL, Chinese Inventory, European EINECS, Japan ENCS, Korean Inventory, Philippines PICCS.

Section 16 Other Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Revision#: 5
Revision Date: 09/12/2012
Revisions since last change (discussion): This Material Safety Data Sheet (MSDS) has been newly reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998). We encourage you to take the opportunity to read the MSDS and review the information contained therein.

N/A	Not available
W/M	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
WEEL	Workplace Environmental Exposure Level
HAZ DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL, which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded.

Administrative Information

G&G Oil Co. of IN, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with this product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's duty to determine the conditions necessary for the safe use of this product. The underlying data, and the information provided herein as a result of that data, is the property of G&G Oil Co. of IN, Inc. and is not to be the subject of sale or exchange without the express written consent of G&G Oil Co. of IN, Inc.