PRECISION LUBRICATION

MATERIAL SAFETY DATA SHEET

Product Name	ROCKDRILL 320 HEAVY DUTY ULTRA GUARD
Product Code	Not Classified
Synonyms	Not Classified
Labelling for Pressurant	Not Classified

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	ROCKDRILL 320 HEAVY DUTY ULTRA GUARD
Supplier	NONA INDUSTRIAL CC
Updated	Apr. 2022
Review	Apr. 2024
CAS Number	N/A
UN Number	N/A
Health Emergency Telephone	(011) - Red Cross Poison
Transport Emergency Telephone	(011) 331 2941 (Hazchem)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Inhalation	CAS-No.	Weight%	Symbol Codes	R-Phrase Numbers

See Section 15 for European Label Information
See Section 8 for exposure Limits (if applicable)

SECTION 3. HAZARDOUS IDENTIFICATION

Emergency response data: Amber Liquid. DOT ERG No. - Not applicable.

Potential health effects
Note: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin and respiratory irritation.

See Section 11 for further health effects/toxicological data.

SECTION 4. FIRST AID MEASURES

Inhalation	Not expected to be a problem. However, if respiratory irritation occurs due to excessive vapour or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation.
Skin contact	Remove contaminated clothing. Dry wipe exposed skin and MATERIAL SAFETY DATA If First Aid Measures If skin contact occurs, wash with water, soap and water. Launder contaminated clothing before reuse. (See Section 16 - Injection Injury)
Eye contact	Flush thoroughly with water. If irritation occurs call a doctor.
Ingestion	Not expected to be a problem. However, if discomfort occurs seek medical attention. Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

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. Avoid breathing fumes. Wear full face mask to avoid exposure. Prevent runoff from fire control or dilution from entering streets, municipal sewers, or drinking water supply.
Special protective equipment for firefighters	For fires in enclosed areas, fire fighters must use Self-Contained Breathing Apparatus.
Unusual fire and explosivehazards:	None.
Products of decomposition	Fumes, smoke, carbon monoxide, sulphur oxides,aldehydes and other decomposition products, inthe case of incomplete combustion.
Flash Point:	> 199 °C (ASTM D-92)

NFPA Hazard Id: Health: 0; Flammability: 1; Reactivity: 0

SECTION 6. ACCIDENTAL RELEASE MEASURES

Procedure if material is released or spilled:	Report spills/releases as required to appropriate authorities.
Methods for cleaning up	**LAND SPILL:** Shut off source taking normal safety precautions. Dike far ahead of spill for later disposal. Cover to ground water. Recover by pumping, using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. **If necessary, dispose of absorbed residues as directed in** Section 13. **WATER SPILL:** Notify port and relevant authorities. Confine with booms if possible. Recover floating product by skimming. Do not attempt to dispersing or disposal. Warn other ships in the vicinity. If allowed by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.
Personal precautions	See Section 8.
Environmental precautions	Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the relevant authorities if contaminants have occurred.

SECTION 7. HANDLING AND STORAGE

Safe handling advice	No special precautions are necessary beyond normal good hygiene practices.
Storage information	Keep containers closed when not in use. Do not store in open or unlabelled containers. Do not store near heat sources, sparks, flames, strong oxidising agents and combustible materials.
Storage and handling procedures	Prevent small spills and leakages to avoid slip hazard.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls	If mists are generated, use ventilation, local exhaust or enclosures to control below exposure limits.
Respiratory protection	Approved respiratory equipment must be used when mist concentrations exceed the recommended exposure limits.
Eye protection	If splash with liquid is possible, chemical type goggles should be worn.
Skin and body protection	No special equipment required. However, if frequent splashing or liquid contact is likely to occur, wear oil impervious gloves and clothing. Good personal hygiene practices should always be followed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
State of matter	Light Amber
Odour	Mild
Solubility	Negligible
Boiling point/range	> 316 °C
Flash Point	> 216 °C (ASTM D-92)
Vapour pressure	< 0.1 kPa
Density	0.8750 g/cm3 @ 20 °C (ASTM D-4052)
Pour point	-30 °C
Viscosity, kinematic	32mm2/s @ 40 °C (ASTM D-445)

SECTION 10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to avoid	Extreme heat and high energy sources of ignition, such as sparks and static electricity.
Materials to avoid	Strong oxidizers
Hazardous decomposition products	Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

SECTION 11. TOXICOLOGICAL DATA

Acute oral toxicity	(Rats): Practically non-toxic (LD50: Greater than 2000 mg/kg): Based on testing of similar products and/or components.
Acute inhalation toxicity	(Rats): Practically non-toxic (LC50: Greater than 5mg/l): Based on testing of similar products and/or the components.
Acute dermal toxicity	(Rabbits): Practically non-toxic (LD50: greater than 2000 mg/kg): Based on testing of similar products and/or the components.
Skin irritation	(Rabbits): Practically non-irritating: (Primary Irritation Index: greater than 0.5 but less than 3): Based on testing of similar products and/or the components.
Eye irritation	(Rabbits): Practically non-irritating. (Draize score: greater than 6 but 15 or less): Based on testing of similar products and/or the components.
Other acute toxicity data	Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a temporary irritation to the upper respiratory tract (nose and throat) in general oil. The presence of additives in other lubricant formulations in approximately the same amounts as in the present formulation) did not alter the observed effects. Consequently, it is not may result in oil droplet deposition and/or granuloma formation.
Sensitization	Not expected to be sensitizing based on tests of this product, components, or similar products.
Repeated dose toxicity	No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at dosages significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure including neurotoxicity, reproductive toxicity, virulent, organ weights, microscopic examination of tissues etc. Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract.
Teratogenicity	No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of mineral oils and/or components in this formulation and/or materials of similar composition.
Carcinogenicity	Chronic mouse skin painting studies of severely solvent refined mineral base oils of similar viscosity to those used in this product, as well as others, have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposure.

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability	This product is expected to be inherently biodegradable
Physico-chemical Removability:	Adsorption to sediment and soil will be the predominant behaviour.
Bioaccumulation	Minimal owing to low water solubility.
Ecotoxicity effects	
Toxicity to aquatic organisms:	This substance is practically non-toxic to aquatic organisms (LL50 >1000 mg/l).
Further information on ecology	In the absence of specific environmental data for this product, this assessment is based on information for representative substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal	Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may betimited locally and/or nationally. Recycling is preferable to disposal. The user of this product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.
Contaminated packaging	Empty containers may retain residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD,BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
Other regulations	The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the characteristics of ignitability, corrosivity, or reactivity. In addition, this product is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

SECTION 14. TRANSPORT INFORMATION

This product is not regulated by the following: U.S. DOT (CFR), ADR, IATA and IMDG.

SECTION 15. REGULATORY INFORMATION

US OSHA Hazard Communication Standard: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.
Governmental Inventory

Status: All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC.

EU Labelling: Product is not dangerous as defined by the European Union Dangerous Substances/ Preparations Directives. EU labelling not required.

SARA
U.S. Superfund This product contains no "EXTREMELY Amendments and HAZARDOUS SUBSTANCES".
Reauthorization Act SARA

Title III:
SARA (311/312) Reportable
Hazard Categories: None

The following product ingredients are cited on the lists below

Chemical Name	CAS Number	List Citations
Regulatory list searched		
1 = ACGIH ALL		
2 = ACGIH A1		
3 = ACGIH A2		
4 = NTP CARC		
5 = NTP SUS		
6 = IARC 1		
7 = IARC 2A		
8 = IARC 2B		
9 = OSHA CARC		
10 = OSHA Z		
11 = TSCA 4		
12 = TSCA 5a2		
13 = TSCA 5e		

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

SECTION 16. OTHER INFORMATION

Note: None products do not contain PCBs.
Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for any other applications. In any case, the following advice should be considered.

FIRST AID: Wash skin with soap and water. Flush eyes with water. If excessive by fumes or vapour, remove to fresh air. If ingested do not induce vomiting. Seek medical attention where necessary. If you understand the MSDS before using this product.

INJECTION INJURY WARNING: If product is injected into or under the skin or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

SAFETY: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures.

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. We can therefore assume all risks of use of the product 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.

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