## Safety Data Sheet

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# 1. Identification of the Substance/Preparation and of the Company Product Name NEOVAC MR-200 Product Code 00013 Manufacturer MORESCO Corporation. 5-5-3, Minatojima-minamimachi, Chuo-ku, Kobe-city, Hyogo, Japan Address Emergency Telephone Number Functional Fluids Sales Department Sales Section Tel:81-6-6262-3310 FAX: 81-6-6262-3327 Functional Fluids Sales Department Tokyo Sales Section Tel: 81-3-5537-7055 FAX: 81-3-5537-7059 Lubricating Oils Manufacturing Department Technology Section Tel: 81-791-42-2100 FAX: 81-791-43-3179 Customer Center Tel: 81-6-6262-3385 FAX: 81-6-6262-3327 Email Address: customercenter@moresco.co.jp Recommended Use and Vacuum Pump Oil Restrictions on Use 2. Hazard Identification GHS Classification: **Physical Hazards** Not applicable to the GHS Classification Health Hazards Not applicable to the GHS Classification Environmental Hazards Not applicable to the GHS Classification Hazardous to Aquatic Environment

Label Elements:

Pictograms/Symbols None

Signal Word	None
Hazard Statements	None
Precautionary Statements	[Prevention]
	None
	[Response]
	None
	[Storage]
	None
	[Disposal] None

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#### 3. Composition/Information on Ingredients

Distinction between Substance and Mixture :	Substance
Chemical Name/Generic Name :	Petro-hydrocarbons
Chemical Formula :	Not identified

Ingredient and Concentration Lubricating base oil 100%

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### 4. First-Aid Measures

Inhalation:	Remove victim to fresh air and let him rinse mouth thoroughly with water.
	Wrapping a blanket and the like around him to keep warm for a rest, call
	a doctor/physician immediately.

Skin Contact: Rinse skin with soap and water.

Eye Contact: Immediately rinse eyes with clean water for at least 15 minutes. Remove contact lenses if present. Continue rinsing. If eye irritation persists, get medical attention.

Ingestion: Call a doctor/physician immediately. Do not induce vomiting.

If affected, the mouth should be rinsed out thoroughly with water.

Date Prepared: November 25, 2019

Expected Acute and	If swallowed, may suffer from diarrhea and vomiting.	
Delayed Symptoms, and May cause inflammation if in eyes.		
Most Important Symptom	s/ May cause inflammation if on skin.	
Effects:	May feel unwell if mist is inhaled.	

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#### 5. Fire-Fighting Measures

Suitable Extinguishing Media	Foggy reinforcing agent, foam, powder, or carbon dioxide
Unsuitable Extinguishing Media	Jet water
Specific Hazards	Currently there is no useful information.
Specific Fire-Fighting Measures	Shut off the fire source.

Use powder or carbon dioxide extinguishers at the beginning of fire. It is effective to intercept the air from a big fire with foam extinguishers. Use of water may cause spreading of fire. Cool the surrounding facilities with water spray. Evacuate non essential personnel around the fire.

Special Protective Actions forWearing protective glasses, protective clothing, and if necessary,Fire-Fighting.respiratory protective equipment, start to fight fire on the

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windward side.

#### 6. Accidental Release Measures

Personal Precautions, Protective	If skin or eye contact is possible, wear protective equipment	
Equipment and Emergency Procedures. If mist is produced, wear respiratory protective equipment to avoid inhalation.		
Environmental Precautions	Take up as much as possible to avoid soil contamination and water pollution.	
	Avoid release to the environment.	
Collection/Neutralization	Eliminate the source of ignition of the surrounding	

and Methods/Materials for Containment.	In the case of a large amount: Dike ahead of liquid spill
	area to minimize migration and then sweep into an
	empty container for disposal in a safe place. After
	disposal, wash away with plenty of water. In doing so,
	take care to prevent the high concentration of wastes
	from entering public watercourses such as rivers. In the
	case of a small amount: Take up into an empty container
	by absorbing the spill with earth and sand or rags, and
	furthermore sop up with rags thoroughly.
Prevention of Secondary Hazards	Remove all the ignition sources immediately. (Do not
	smoke nearby and keep away from sparks and flames.)

Report to the related organs for help.

## 7. Handling and Storage

Handling:	Before repairing machinery with remnant oils on, remove them
Technical Measures	thoroughly in a safe place. Take precautionary measures against static discharge and wear electro conductive clothing and shoes. As vapors released from petroleum products are heavier than air, they are liable to stagnate. Due to it, attention should be paid to ventilation and fire. Handle at room temperatures, paying attention to moisture and to impurities not to mix with. If skin or eye contact is possible, wear protective equipment. If mist is produced, wear respiratory protective equipment to avoid inhalation. Use a pump and the like to take out of container. Do not suck through a tube. Do not weld, heat, hole, and cut off the container. Residues may ignite involving explosion.
Local Exhaust Ventilation/	Refer to '8. Exposure Controls/Personal Protection'
Full Ventilation System	
Avoiding Contact	Refer to '10. Stability and Reactivity'.
Precautions for Safe Handling	Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Be cautious not to use any naked fire. As vapors released from petroleum products are heavier than air, they are liable to stagnate. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Do not press an empty container. It may explode under pressure. Do not drink. Keep out of reach of children.

Storage:

Technical Measures	Avoid heat, sparks, flames, and static electricity. Keep container tightly closed.
Incompatible Materials	Refer to '10. Stability and Reactivity'.
Conditions for Safe Storage	Store in a well-ventilated area. Store avoiding exposure to direct sunlight. Store away from oxidizer. Store locked up.
Materials for Containers/Packagir	My When replacing the container, use metal or glass container. Some kinds of resin-treated container may melt. Use airtight, anti-breakage type containers.

#### 8. Exposure Controls/Personal Protection

Permissible Concentration (Exposure Limit, a biological exposure index):

Japan Society for Occupational Health (2010): 3mg/m3 (mineral oil mist) 1)

ACGIH (2010): TWA 5mg/ m3 (mineral oil mist) 2)

Standards for Allowable Density of Hazardous Substances in Labor Operation Air: Not established

Engineering Controls: When mist and vapors are produced, seal off sources or provide exhaust ventilation. Facilities for rinsing eyes and washing a body are required near the workplace.

Personal Protective Equipment

Respiratory Protection: Wear appropriate respiratory protection.

Hand Protection:	If necessary, wear oil-resistant protective gloves.
Eye Protection:	If diffusion is possible, wear eye protection.

Skin and Body Protection: If necessary, wear protective clothing and face protection

Hygienic Precautions: Wash hands thoroughly after handling. Regularly inspect protective equipment according to the inspection table of protective equipment. Do not eat, drink or smoke when using this product.

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### 9. Physical and Chemical Properties

Physical State:

Appearance	Liquid	
Color	Light yellow	
Odor	Slight Oily odor	
рН	Not applicable	
Melting/Freezing Point	Not applicable	
Boiling Point	230°C/13Pa(0.1mmH)	
Flash Point	≧250℃ ( COC )	
Explosive Range (Explosive Limits) Upper limit: 7% Lower limit: 1% (estimated value)		
Vapor Pressure	No data available	
Vapor Density (air=1)	No data available	
Specific Gravity (Density) 0.88g/cm3 (15°C)		
Solubility	Insoluble in water	
Partition Coefficient: n-octanol/water No data available		
Auto-ignition Temperatu	re No data available	
Pour point	≦-10°C	
Volatility	None (at room temperatures)	

10. Stability and Reactivity	
Stability	Stable
Possibility of Hazardous	Reactions Reacts with strong oxidizer.
Conditions to Avoid Incompatible Materials	No data available (Hazardous reactions will not occur under normal use) Strong oxidizer
Hazardous Decomposition Products None	

## **11. Toxicological Information**

Acute Toxicity:

Oral	ATEmix(Oral) > 5000mg/kg	
Dermal	ATEmix(Dermal) > 5000mg/kg	
Inhalation	ATEmix(Inhalation) > 5mg/L	
Skin Corrosion/Irritation	Information is not classified as Skin Corrosion/Irritation.	
Serious Eye Damage/Eye Ir	ritation Information is not classified as Serious Eye Damage/Eye Irritation	
Respiratory or Skin Sens	itization Information is not classified as Respiratory or Skin Sensitization	
Germ Cell Mutagenicity	Information is not classified as Germ Cell Mutagenicity	
Carcinogenicity	Information is not classified as Carcinogenicity	
Reproductive Toxicity	Information is not classified as Reproductive Toxicity	
STOT/Systemic Toxicity –	Information is not classified as Specific Target Organ Toxicity/	
Single Exposure	Systemic Toxicity (Single Exposure).	
STOT/Systemic Toxicity –	Information is not classified as Specific Target Organ Toxicity/	
Repeated Exposure	Systemic Toxicity (Repeated Exposure).	
Aspiration Hazard	Information is not classified as Aspiration Hazard.	

## 12. Ecological Information

Ecotoxicity	Information is not classified as Aquatic Toxicity.		
Persistence and Degradability No information		ion available	
Bioaccumulative Pote	ential No informat	No information available	
Mobility in Soil	No informat	ion available	
Hazardous to the ozone layer No information available			
Other Adverse Effects No information available			
Environmental Criteria No information available			
<b>13. Disposal Considerations</b> Waste Residues Dispose the waste according to national and			
		local regulations. Do not dump.	
Contaminated Containers Contaminated c		ed or empty container/packaging are to be disposed	
and Packaging according to national and local regulations.			
14. Transport Information			
International Regulation			
UN Classification	Not applicable (Not Restricted IATA)		
Special Precautions	sunlight exposure, damage, corrosion, leak, while being transported. Do not		
	place heavy load on t	op of the container.	
15. Regulatory Information			
No Information			
16. Other Information			
References: 1)	Recommendation of (	Occupational Exposure Limits by Japan Society for	

References: 1) Recommendation of Occupational Exposure Limits by Japan Society for

Occupational Health

2) Thresholds limit values for chemical substances and physical agents and biological exposure indices by ACGIH

3) SDS of raw materials

 As evaluations on hazards are not necessary satisfactory, special attention should be paid for use.
This SDS, summarizing matters to be attended to, is required for proper use of the product and is intended for

normal use.

3. Referring to this SDS, properly use and handle this product on the user's own responsibility.

4. The contents of this SDS are based on information available as of today and our knowledge. The information, data, and evaluations herein are not guaranteed, and in addition, may be revised due to revision of laws or knowledge newly obtained. No information available