
Safety Data Sheet

1. Identification of the Substance/Preparation and of the Company

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	Product Name	NEOVAC MR-200
	Product Code	00013
	Manufacturer	MORESCO Corporation.
	Address	5-5-3, Minatojima-minamimachi, Chuo-ku, Kobe-city, Hyogo, Japan
	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: 81-3-3273-7526 FAX: 81-3-3281-7756
		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 Envir	
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	Label Elements:	
	Pictograms/Symbols	None
	Signal Word	None
	Hazard Statements	None
	Precautionary Statements	[Prevention]
		None
		[Response]
		None
		[Storage]
		None
		[Disposal]
		None

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%

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

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 for	Wearing protective glasses, protective clothing, and if necessary,
Fire-Fighting	respiratory protective equipment, start to fight fire on the windward
	side.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures If skin or eye contact is possible, wear protective equipment. If mist is produced, wear respiratory protective equipment to avoid inhalation.

	Environmental Precautions Collection/Neutralization and Methods/Materials for Containment	 Take up as much as possible to avoid soil contamination and water pollution. Avoid release to the environment. Eliminate the source of ignition of the surrounding. 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/ Full Ventilation System	Refer to '8. Exposure Controls/Personal Protection'.
	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/Packaging	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/m ³ (mineral oil mist) ¹⁾	
ACGIH (2010):		TWA 5mg/m^3 (mineral oil mist) ²⁾	
Standards for Allowable Density	of Hazardous Substa	nces in Labor Operation Air: Not established	
Engineering Controls:	When mist and va	apors are produced, seal off sources or provide exhaust	
	ventilation. Facilitie	es for rinsing eyes and washing a body are required near the	
	workplace.		
Personal Protective Equipment			
Respiratory Protection:	Wear appropriate re	spiratory protection.	
Hand Protection:	If necessary, wear o	il-resistant protective gloves.	
Eye Protection:	If diffusion is possil	ble, wear eye protection.	
Skin and Body Protection:	If necessary, wear p	rotective clothing and face protection.	
Hygienic Precautions:	Wash hands thoroug	ghly after handling.	
	Regularly inspect j	protective equipment according to the inspection table of	
	protective equipment	nt.	
	Do not eat, drink or	smoke when using this product.	

9. Physical and Chemical Properties

Physical State:	
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Appearance	Liquid
Color	Light yellow
Odor	Slight Oily odor
pH	Not applicable
Melting/Freezing Point	Not applicable
Boiling Point	230°C/13Pa(0.1mmH)
Flash Point	$\geq 250^{\circ} C(COC)$
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)	$0.88 \text{g/cm}^3 (15^{\circ}\text{C})$
Solubility	Insoluble in water
Partition Coefficient: n-octanol/water	No data available
Auto-ignition Temperature	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	No data available (Hazardous reactions will not occur under normal
	use)
Incompatible Materials	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 Irritation	Information is not classified as Serious Eye Damage/Eye Irritation.
Respiratory or Skin Sensitization	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 available
Bioaccumulative Potential	No information available
Mobility in Soil	No information available
Hazardous to the ozone layer	No information available
Other Adverse Effects	No information available
Environmental Criteria	No information available

13. Disposal Considerations

Waste Residues	Dispose the waste according to national and local regulations.
	Do not dump.
Contaminated Containers	Contaminated or empty container/packaging are to be disposed according to
and Packaging	national and local regulations.

14. Transport Information

International Regulation	
UN Classification	Not applicable
Special Precautions	Load the containers in a manner that they are certain not to result in direct
	sunlight exposure, damage, corrosion, leak, while being transported.
	Do not place heavy load on top of the container.

15. Regulatory Information

No Information

16. Other Information

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
- 1. As evaluations on hazards are not necessary satisfactory, special attention should be paid for use.
- 2. 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.