

SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

CIRKAN RO 220

SDS # : 083387

Section 1. Identification

GHS product identifier	1	CIRKAN RO 220
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Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Circulating oil	
Suppliar's datails	TotalEnergies Marketing USA Inc.

Supplier's details : TotalEnergies Marketing USA, Inc. 1201 Louisiana St. Suite 1800 Houston, TX 77002 Phone: 713-483-5000 ProductSafety@totalenergies.com

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Emergency telephone number (with hours of operation)

1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic) 1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Avoid contact with skin and clothing. Wash thoroughly after handling.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.



Section 3. Composition/information on ingredients

Substance/mixture : Mixture

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

Additional : Mineral oil of petroleum origin. Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

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 necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: ₩ash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband

Most important symptoms/effect	<u>cts, acute and delayed</u>
Potential acute health effects	
Eye contact :	No known significant effects or critical hazards.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	Defatting to the skin. May cause skin dryness and irritation.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>ns</u>
Eye contact :	No specific data.
Inhalation :	No specific data.
Skin contact :	Adverse symptoms may include the following: irritation dryness cracking
Ingestion :	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

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Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use dry chemical, CO₂, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : In a fire or if heated, a pressure increase will occur and the container may burst. from the chemical : Carbon monoxide Hazardous thermal carbon dioxide decomposition products Nitrogen dioxide phosphorus oxides Mercaptans Hydrogen sulfide sulfur oxides **Special protective actions** : 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 for fire-fighters training. **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

Section 6. Accidental release measures

Personal precautions, protective 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information i Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	n
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 containment 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.
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Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	ing, drinking and Idled, stored and Iking and smokir	bersonal protective equipment (see Section 8). I smoking should be prohibited in areas where this material is I processed. Workers should wash hands and face before eating, ng. Remove contaminated clothing and protective equipment before as. See also Section 8 for additional information on hygiene
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from 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 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. See Section 10 for incompatible materials before handling or use.	

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Advisory OEL	 Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined) 			
Appropriate engineering controls	: Good general ventilation should be sufficient to control contaminants.	worker exposure to airborne		
Environmental exposure controls	: Emissions from ventilation or work process equipment they comply with the requirements of environmental pr cases, fume scrubbers, filters or engineering modificat will be necessary to reduce emissions to acceptable le	otection legislation. In some ions to the process equipment		
Individual protection meas	<u>Ires</u>			
Hygiene measures	: Wash hands, forearms and face thoroughly after hand eating, smoking and using the lavatory and at the end Appropriate techniques should be used to remove pote Wash contaminated clothing before reusing. Ensure the showers are close to the workstation location.	of the working period. entially contaminated clothing.		
Eye/face protection	: Safety eyewear complying with an approved standard s assessment indicates this is necessary to avoid expos gases or dusts. If contact is possible, the following pro the assessment indicates a higher degree of protection shields.	ure to liquid splashes, mists, otection should be worn, unless		
Skin protection				
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Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Hydrocarbon-proof gloves Fluorinated rubber Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
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.
Respiratory protection	: None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

<u>A</u>	<u>ppearance</u>			
	Physical state	4	Liqui	d.
	Color	1	Ambe	er.
C)dor	:	Petro	leum distillates
C	dor threshold	:	Not a	vailable.
р	н	:	Not a	vailable.
N	lelting point/freezing point	:	Not a	vailable.
E	Boiling point	:	Not a	vailable.
F	lash point	:	Oper	n cup: 246°C (474.8°F) [Cleveland Open Cup (COC)]
E	vaporation rate	:	Not a	vailable.
F	lammability (solid, gas)	:	Not a	vailable.
	ower and upper explosive flammable) limits	:	Not a	vailable.
V	apor pressure	:	Not a	vailable.
V	apor density	:	Not a	vailable.
R	elative density	:	0.889) [ASTM D 1298]
D	ensity	:	0.889	9 g/cm³ [15°C]
S	olubility(ies)	:		
	Media			Result
	water			Nataalubla

	water		Not soluble
Miscible with water : No.		:	No.
Solubility in water : Inso		:	Insoluble
	artition coefficient: n- ctanol/water	:	Not applicable.
Α	uto-ignition temperature	1	Not available.
D	ecomposition temperature	1	Not available.
V	iscosity	1	Kinematic (40°C (104°F)): 220 mm²/s (220 cSt) [ASTM D 445]
F	low time (ISO 2431)	1	Not available.
P	article characteristics		

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Median	particle size

: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Carbon monoxide carbon dioxide Nitrogen dioxide phosphorus oxides Mercaptans Hydrogen sulfide sulfur oxides

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Acute toxicity Conclusion/Se	ummary	: Based on available data, the classification criteria are not met.			
Irritation/Corro	<u>sion</u>				
Skin		: Based on available data, the classification criteria are not met.			
Eyes		: Based on available data, the classification criteria are not met.			
Respiratory		: Based on available data, the classification criteria are not met.			
Sensitization					
Skin		: Based on available data, the classification criteria are not met.			
Respiratory		: Based on available data, the classification criteria are not met.			
Mutagenicity					
Conclusion/S	ummary	: Based on available data, the classification criteria are not met.			
Carcinogenicity	¥				
Conclusion/S	ummary	: Based on available data, the classification criteria are not met.			
Reproductive to	<u>oxicity</u>				
Conclusion/So	ummary	: Based on available data, the classification criteria are not met.			
Teratogenicity					
Conclusion/S	ummary	: Based on available data, the classification criteria are not met.			
<u>Specific target organ toxicity (single exposure)</u>					
Conclusion/S	ummary	: Based on available data, the classification criteria are not met.			
Specific target organ toxicity (repeated exposure)					
Conclusion/S	Summary	: Based on available data, the classification criteria are not met.			
Aspiration haza	ard				
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TotalEnergies	SDS	#: 083387
Conclusion/Summary	: Based on available data, the classification criteria are not met.	
Information on the likely routes of exposure	: Not available.	
Potential acute health effects	<u>s</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	: No known significant effects or critical hazards.	
Symptoms related to the phy	vsical, chemical and toxicological characteristics	
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking	
Ingestion	: No specific data.	
Delayed and immediate effect	cts and also chronic effects from short and long term exposure	
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	ects	
Not available.		
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cra dermatitis. 	acking and/or
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	
Numerical measures of toxic	<u>sity</u>	
Acute toxicity estimates		
N1/A		

N/A

Other information

Not available.

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Section 12. Ecological information

Toxicity

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water Loss by evaporation is limited
Other adverse effects	: No known significant effects or critical hazards.

Section 13. Disposal 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 via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed 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	ICAO/IATA
UN/ID No	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

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.

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Transport in bulk according	:	Not available.
to IMO instruments		

Section 15. Regulatory information				
U.S. Federal regulations	: FSCA 8(a) PAIR: diphenylamine			
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed			
Clean Air Act Section 602 Class I Substances	: Not listed			
Clean Air Act Section 602 Class II Substances	: Not listed			
DEA List I Chemicals (Precursor Chemicals)	: Not listed			
DEA List II Chemicals (Essential Chemicals)	: Not listed			
<u>SARA 302/304</u>				
Composition/information on ingredients				
No products were found.				
SARA 304 RQ	: Not applicable.			
SARA 311/312				
Classification	: HNOC - Defatting irritant			
Composition/information	on ingredients			
No products were found.				
State regulations				
Massachusetts	The following components are listed: OIL MIST, MINERAL; MINERAL OIL, PETROLEUM PARAFFIN OILS, CATALYTIC DEWAXED HEAVY			
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>				

WARNING: This product can expose you to chemicals including 2-ethylhexyl acrylate and Ethyl acrylate, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)



Not listed.

UNECE Aarhus Protocol on POPs and Heavy Met	als	
Not listed.		
Inventory list		
Australia inventory (AIIC)	: All components are listed or exempted.	
Canada inventory (DSL/NDSL)	: All components are listed or exempted.	
China inventory (IECSC)	: All components are listed or exempted.	
Europe inventory (EC)	: 🕅 components are listed or exempted.	
Japan inventory	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.	
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.	
Philippines inventory (PICCS)	: All components are listed or exempted.	
Korea inventory (KECI)	: 🕅 components are listed or exempted.	
Taiwan Chemical Substances Inventory (TCSI)	: Not determined.	
Thailand inventory	: Not determined.	
Turkey inventory	: Not determined.	
United States inventory (TSCA 8b)	: All components are listed or exempted.	
Vietnam inventory	: Not determined.	
The information stated in this section relates as	low to the conformity of the chemical product with th	

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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.

Procedure used to derive the classification

Classification		Justification	
Not classified.			
History			
Date of revision	: 2023/09/08		
previous revision date	: 2022/11/18		
Version	: 1.02		
Key to abbreviations	IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coe MARPOL = International Convention for the Preventic	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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group	
References	: Not available.		

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.