

SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

AZOLLA VTR 32

SDS # : 083748

Section 1. Identification

GHS product identifier :	AZOLLA VTR 32
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Relevant identified uses of the substance or mixture and uses advised against

ProductSafety@total.com

Identified uses		
Hydraulic oil		
Supplier's details	: TotalEnergies Marketing USA, Inc. 1201 Louisiana St. Suite 1800 Houston, TX 77002 Phone: 713-483-5000	

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

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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.

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Section 3. Composition/information on ingredients

Substance/mixture

Additional

information

: Mixture

Ingredient name	% (w/w)	CAS number
hosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	≤3	85940-28-9

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

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

There are no additional 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. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effect	<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.
Over-exposure signs/symp	<u>oms</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 mediate	cal attention and special treatment needed, if necessary
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.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Carbon monoxide carbon dioxide Hydrogen sulfide sulfur oxides Zinc oxides phosphorus oxides
Special protective actions for fire-fighters	: 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 training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tive 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. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 co	ntainment 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	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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

	-		
Ingredient na	me		Exposure limits
Phosphorodith Pr) esters, zind),O-bis(2-ethylhexyl and iso-Bu and iso-	None.
Advisory OEL	:	Mineral oil mist: USA: OSHA (PEL) TWA 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3	5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL (highly refined)
Appropriate en controls	gineering :	Good general ventilation should be suffic contaminants.	cient to control worker exposure to airborne
Environmental controls	exposure :	they comply with the requirements of env	ess equipment should be checked to ensure vironmental protection legislation. In some ering modifications to the process equipment acceptable levels.
Individual prote	ection measures		
Hygiene meas	ures :	eating, smoking and using the lavatory a Appropriate techniques should be used t	o remove potentially contaminated clothing. sing. Ensure that eyewash stations and safety
Eye/face prote	ection :	assessment indicates this is necessary t gases or dusts. If contact is possible, th	ved standard should be used when a risk o avoid exposure to liquid splashes, mists, e following protection should be worn, unless ee of protection: safety glasses with side-
<u>Skin protectio</u>	<u>n</u>		
Hand protect	ion :		omplying with an approved standard should be I products if a risk assessment indicates this is



	Hydrocarbon-proof gloves Fluorinated rubber nitrile 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.
Other skin protection	 Appropriate footwear and any additional skin protection measures 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

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

:	Liquid. [limpid]
:	Clear.
:	Characteristic.
:	Not available.
:	Øpen cup: 228°C (442.4°F) [Cleveland Open Cup (COC)]
:	Not available.
:	Ø.851 [ASTM D 1298]
:	Ø.815 g/cm ³
:	Insoluble in the following materials: cold water and hot water.
1	No.
:	Not applicable.
:	Not available.
:	Not available.
:	Kinematic (40°C (104°F)): 34.8 mm²/s (34.8 cSt) [ASTM D 445]
:	Not available.
	: 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	: Zarbon monoxide carbon dioxide Hydrogen sulfide sulfur oxides Zinc oxides phosphorus oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	LD50 Dermal	Rabbit	20000 mg/kg	-	OECD 402	2
	LD50 Oral	Rat	3080 mg/kg	-	OECD 401	l -
Conclusion/Summary	: Based on available data,	the classificatio	n criteria are no	t met.		
Irritation/Corrosion						
Skin :	Based on available data, th	ne classification	criteria are not	met.		
Eyes :	Based on available data, th	ne classification	criteria are not	met.		
Respiratory :	Based on available data, th	ne classification	criteria are not	met.		
Sensitization						
Skin	Based on available data, t	he classification	n criteria are not	met.		
Respiratory	Based on available data, t	he classification	n criteria are not	met.		
<u>Mutagenicity</u>						
Conclusion/Summary :	Based on available data, th	ne classification	criteria are not	met.		
Carcinogenicity						
Conclusion/Summary	Based on available data, th	ne classification	criteria are not	met.		
Reproductive toxicity						
Conclusion/Summary	Based on available data, th	ne classification	criteria are not	met.		
Teratogenicity						
Conclusion/Summary	: Based on available data, t	he classification	n criteria are not	met.		
Specific target organ toxicity	<u>(single exposure)</u>					
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Not	available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
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.

Symptoms related to the physical, 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 effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
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, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: 📈 known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates



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Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
ZOLLA VTR 32 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	82133.3 3080	N/A 20000	N/A N/A	N/A N/A	N/A N/A

Section 12. Ecological information

Toxicity

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

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
	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)	-	-	-
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Packing group	-		-	-		
Environmental hazards	No.		No.	No.		
Additional inform	nation					
Special precaution			user's premises: always transport . Ensure that persons transporting ht or spillage.			
Transport in bulk to IMO instrumer		Not available.				
Section 15	. Regulato	ry informat	ion			
U.S. Federal regu	lations :	TSCA 8(a) PAIR: S	iloxanes and Silicones, di-Me			
_		TSCA 8(a) CDR E	cempt/Partial exemption: Not dete	ermined		
		Clean Water Act (CWA) 307 : Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts; toluene				
		Clean Water Act (CWA) 311: toluene			
Clean Air Act S (b) Hazardous A Pollutants (HAP	Air	Listed				
Clean Air Act Se Class I Substan		Not listed				
Clean Air Act Se Class II Substar		Not listed				
DEA List I Chen (Precursor Chei		Not listed				
DEA List II Cher (Essential Chen		Not listed				
<u>SARA 302/304</u>						
Composition/i	nformation on in	ngredients				
No products we	ere found.					
SARA 304 RQ	:	Not applicable.				
<u>SARA 311/312</u>						
Classification	: H	NOC - Defatting irr	itant			
Composition/i	nformation on in	ngredients				
Name		%	Classification			
hosphorodithic O-bis(2-ethylhe and iso-Pr) est), ≤3	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Cat			

<u>SARA 313</u>



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	Product name	CAS number	%
Form R - Reporting requirements	Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	≤3
Supplier notification	Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: 🖬 e following components are listed: OIL MIST, MINERAL	
New York	: None of the components are listed.	
New Jersey	: The following components are listed: ZINC compounds	
Pennsylvania	: The following components are listed: ZINC COMPOUNDS	
California Prop. 65		

WARNING: This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. 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 Metals

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 (EINECS/ELINCS/NLP) : Not determined. : Japan inventory (CSCL): At least one component is not Japan inventory listed. Japan inventory (ISHL): At least one component is not listed. New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted. : Not determined. **Philippines inventory (PICCS)** : Not determined. Korea inventory (KECI) : All components are listed or exempted. **Taiwan Chemical Substances Inventory (TCSI)** : At least one component is not listed. **Thailand inventory 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 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	
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 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = 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 	
	 : 2022/03/22 : 2021/12/02 : 2 : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification a IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coeffi MARPOL = International Convention for the Prevention as modified by the Protocol of 1978. ("Marpol" = marine



SGG = Segregation Group UN = United Nations

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.