

Safety Data Sheet SERIOLA ETA 32 Product name : Page : 1/6 SDS n° :30420-33 Version :2.02 Version of : 2008-11-09 This sheet supersedes the one dated : 2008-10-01 **PRODUCT LABELS** LABELLING (standard or EU): Not concerned R-phrases : None S-phrases : None TRANSPORT LABELLING: Not applicable. 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING SERIOLA ETA 32 Name of the product : H1E Code No. : Product application : Heat transfer fluid TOTAL LUBRIFIANTS Supplier : 562 avenue du Parc de l'Ile 92029 Nanterre CEDEX Tel: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 rm.msds-lubs@total.com Emergency telephones : ORFILA / Tel : 01.45.42.59.59 See local details at end of sheet : 2. HAZARDS IDENTIFICATION Health effects : This product does not present a danger of intoxication. Environmental impact : Do not discharge this product into the environment. Physico-chemical hazards : No specific risk of fire or explosion under normal conditions of use

3. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

Chemical nature :

Petroleum-derived severely refined mineral-base product Content in PAH according to IP 346 method < 3%

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
2,6-di-tert-butylphenol	204-884-0	128-39-2	<0,25 %	Xi ,N	R-50/53, 38

See section 16 for explanations of R-phrases :

4. FIRST AID MEASURES

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Inhalation :

Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat.

Transport the person into fresh air, keep warm and allow to rest.



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Ingestion :	Possible risk of vomiting and diarrhoea. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract. Give nothing to drink	
Skin contact :	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.	
Eye contact :	Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.	
Aspiration :	If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.	
5. FIRE FIGHTING MEASURES		
Flash point: See heading 9		
Extinguishing media :	- suitable: Foam, carbon dioxide (CO2), powder.	
	 not recommended: Do not use water jets (stick jets) for extinguish flames. 	ning fire, as this may help the spread of
Specific hazards :	Do not use water jets (stick jets) for extinguish	produce gases of varying toxicity such as lrocarbons, aldehydes and soot. These may
Specific hazards : Protective measures for firefighters :	Do not use water jets (stick jets) for extinguish flames. Incomplete combustion and thermolysis may p carbon monoxide, carbon dioxide, various hyd be highly dangerous if inhaled. Vapours can build explosive mixtures with air	produce gases of varying toxicity such as lrocarbons, aldehydes and soot. These may on the ground to sources of ignition.

Personal protection :	Ensure good ventilation. Remove sources of ignition. Do not smoke.
After spillage / leakage :	 On land: Surfaces on which the product has been spilled may become slippery. Do not allow the product to enter sewers or rivers or contaminate the soil. Recover with mechanical means such as pumps and skimmers. On water: If the product is spilt into rivers or sewers, notify the authorities of the possible presence of surface effluent.
Spill cleanup methods :	If the material has been discharged into a stream or a sewer, inform the authorities of the possible presence of surface effluent.

7. HANDLING AND STORAGE

HANDLING :

Prevention of user exposure :	Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk.
	Make all the necessary arrangements in order to reduce exposure risk, notably to products
	in use or to wastes.
	Keep away from combustible substances; keep away from food and beverages.



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Prevention of fire and explosion :	Empty containers may contain flammable or explosive vapours. There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use.	
Precautions :	Avoid static electricity build up with connection to earth. Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example).	
STORAGE :		
Technical measures :	Make the necessary arrangements to prevent water and soil pollution.	
Storage precautions :	 Suitable: Store at ambient temperature, protected against contact with water and moisture, and away from any source of ignition. To be avoided: Do not store exposed to the elements. 	
Incompatible products :	Dangerous reaction with strong oxidizing agents.	
Packaging materials :	- Recommended: Use only hydrocarbon-resistant conta Keep in original container if possible	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures :	Use the product in a properly ventilated atmosphere. When working on enclosed place (tanks, reservoirs), make sure that atmosphere is not suffocating and/or wear recommended equipment.		
Hand protection :	Impermeable hydrocarbon-proof gloves. recommended material: nitrile, neoprene. The break through times of the same type of glove of different manufacturers can be very different - even if the layer thickness is similar. Therefore the break through times have to be found out from the manufacturer of the protective gloves themselves. The demands on the gloves are determined by the conditions in practice (e.g. multiple use, mechanical load, temperature, strength and duration of exposition). Before choosing suitable gloves, it is recommended that the user tests the gloves.		
Eye protection :	Goggles, in case of risk of splashing.		
Skin and body (other than the hands) protection :			
	As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums).		
	Don't wear rings, watches or anything similar which can retain the product and may give rise to skin conditions.		
Hygienic work practices :	Avoid prolonged and repeated contact with the skin, especially with used or waste product If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water. Do not use abrasives, solvents or fuels. Do not put product contaminated rags into workwear pockets. Do not eat, drink or smoke whilst handling the product. Do not dry hands with rags that have been contaminated with product. Immediately remove all soiled or stained clothing.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Liquid
Colour :	Yellow to amber.



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Odour :	Characteristic	
Density/specific gravity :	865 - 875 kg/m3 Temperature (°C) 15	
Flash point :	> 218 °C (ASTM D 92)	
Température d'auto-inflammation :	> 250 °C (ASTM E 659)	
Solubility :	 in water : Insoluble and immiscible. in organic solvents : Soluble in many common solvents. 	
Partition coefficient (log Pow) :	Log Pow > 6 Temperature (°C) 20	
Viscosity :	32 mm2/s Temperature (°C) 40	
10. STABILITY AND REACTIVITY		
Stability :	The product is stable at normal stora	age, handling and use temperatures.
Conditions to avoid :	Heat (temperatures above flash poin	t), sparks, ignition points, flames, static electricity
Materials to avoid :	Avoid contact with strong oxidizers	
Hazardous decomp. products :	Incomplete combustion and thermol monoxide, carbon dioxide, various h	ysis produces potentially toxic gases such as carbon hydrocarbons, aldehydes and soot.
11. TOXICOLOGICAL INFORMATIO	N	
Acute toxicity / Local effect :		
Inhalation, comments:	Not classified according to the criter Inhalation of high concentrations of respiratory tract.	ria of classification in force. vapour or aerosols may cause irritation of the upper
Skin contact, comments:	Not classified according to the criter	ria of classification in force.
Ingestion, comments:	In case of ingestion of small quantiti of larger amounts: abdominal pain, o	ies, no important effect observed. in case of ingestion diarrhea,
CHRONIC TOXICITY OR LONG-TERM	TOXICITY :	
Skin contact :	Characteristic skin affections (oil bli exposure through contact with stained	isters) may develop following prolonged and repeated ed clothing
12. ECOLOGICAL INFORMATION		
Comments about ecotoxicity :	Experimental data on the finished pr It is considered to present a little dat no information available for used pr	nger for aquatic life.
Mobility :	 Air: there is a slow loss by evaporation. Soil: Given its physical and chemical cha mobility in the ground. Water: The product is insoluble; it spreads of 	racteristics, the product generally shows little on the surface of the water



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13. DISPOSAL CONSIDERATIONS		
Waste disposal :	Dispose of in a safe manner, in accordance with local regulations. If need be, collection by an authorised waste contractor and regeneration or incineration at an approved installation.	
Waste class :	The waste classification is dependant on the composition of the product at the time of disposal. The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.	
Disposal of contaminated packaging :	Proceed in compliance with the prev	vailing regulations.
14. TRANSPORT INFORMATION		
Road (ADR) / Rail (RID) :		
Class :	Not restricted for transport.	
Transport by barge (ADNR) :		
Marine (IMO-IMDG) :		
Air (ICAO/IATA) :		
15. REGULATORY INFORMATION		
Not applicable		
Risk phrases :	None	
Safety phrases :	None	
EU directives :	Hazardous preparations directive 19	99/45/EC modified (Directive 2001/60/EC).
NATIONAL REGULATIONS :	Regulation (EC) N° 1907/2006 REACH	
Social Security code :	Table of occupational illnesses and a - Art. L 461-6, Art. D.461-1, annexe	

16. OTHER INFORMATION

For France, in case of poisoning call the Antipoison Centre (if possible in your area) and/or the SAMU (15), see ORFILA number below -Tel : Angers 02.41.48.21.21 - Bordeaux 05.56.96.40.80 - Lille 03.20.44.44.44 - Lyon 04.72.11.69.11 - Marseille 04.91.75.25.25 - Nancy 03.83.32.36.36 - Paris 01.40.05.48.48 - Rennes 02.99.59.22.22 - Strasbourg 03.88.37.37.37 - Toulouse 05.61.77.74.47 This sheet is in compliance with the standards defined by the directives 91/155/CEE, 93/112/CEE, 2001/58/CE and the article 14 of the directive 1999/45/EC.

Explanations of R-phrases in section 2 :	R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-38 Irritating to skin.	
Revision date:	2008-11-09	
Supersedes the data sheet of:	2008-10-01	
* Information revised since the previous version of the SDS :		

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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.