

## **MATERIAL SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

### **SDS # :** 30503

## **CARTER ENS/EP 700**

### Date of the previous version: 2012-08-16

Revision Date: 2013-01-02

Version 2.03

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name	CARTER ENS/EP 700
Number	H0K
Pure substance/mixture	Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Identified uses

## 1.3. Details of the supplier of the safety data sheet

Gear oil.

Supplier	TOTAL LUBRIFIANTS
	562 Avenue du Parc de L'ile
	92029 Nanterre Cedex
	Tél: +33 (0)1 41 35 40 00
	Fax: +33 (0)1 41 35 84 71

#### For further information, please contact:

Contact Point	HSE
E-mail Address	rm.msds-lubs@total.com

### 1.4. Emergency telephone number

#### +33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48. -MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

### REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

### DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16



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The substance/mixture is classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments Classification R66 - R52-53

2.2. Label elements

Labelled according to

Directive 1999/45/EC

Hazard pictograms none

### R-phrase(s)

R66 - Repeated exposure may cause skin dryness or cracking R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S-phrase(s)

S24 - Avoid contact with skin

S37 - Wear suitable gloves

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets Contains Reaction products of bis(4- methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched). May produce an allergic reaction.

## 2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

**Environmental properties** 

Should not be released into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## 3.2. Mixture

- . - - - - - - - -

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Naphta (petroleum)hydrotreated heavy	265-150-3	no data available	64742-48-9	<25	Xn;R65 R66 R10	-
Zinc alkyl dithiophosphate	272-028-3	no data available	68649-42-3	<2.5	Xi;R38-41 N;R51-53	



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Reaction products of bis(4-	931-384-6	01-2119493620-38	^	<1	Xn;R22	Acute Tox. 4 (H302)
methylpentan-2-yl)dithiophosph					Xi;R41	Aquatic Chronic 2 (H411)
oric acid with phosphorus					R43	Eye Dam. 1 (H318)
oxide, propylene oxide and					N;R51-53	Flam. Liq. 3 (H226)
amines, C12-14 alkyl						Skin Sens. 1 (H317)
(branched) ***						

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

### For the full text of the R-phrases mentioned in this Section, see Section 16 For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

## 4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this material safety data sheet to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Rinse mouth.
Protection of First-aiders	Use personal protective equipment.
4.2. Most important sympt	oms and effects, both acute and delayed
Eye contact	Not classified.
Skin contact	Repeated exposure may cause skin dryness or cracking. May produce an allergic reaction.
Inhalation	Not classified.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***
4.3. Indication of immedia	te medical attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically.

Notes to physician

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Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

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5.1. Extinguishing media	· · · · · · · · · · · · · · · · · · ·
Suitable Extinguishing Media	Carbon dioxide (CO 2). ABC powder. Foam. Water spray or fog.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
5.2. Special hazards arisir	ng from the substance or mixture
Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
5.3. Advice for fire-fighter	<u>S</u>
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Other information	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
6. ACCIDENTAL RELEASE N	MEASURES
6.1. Personal precautions,	protective equipment and emergency procedures
General Information	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
6.2. Environmental precau	utions
General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and material	s for containment and cleaning up
Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4. Reference to other se	ections

## 6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.



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## 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Advice on safe handling
 When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
 Prevention of fire and explosion
 Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.
 Hygiene measures
 Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage<br/>conditionsKeep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep<br/>container tightly closed. Keep preferably in the original container. Otherwise reproduce all<br/>indication of the regulation label on the new container. Do not remove the hazard labels of<br/>the containers (even if they are empty). Design the installations in order to avoid accidental<br/>emissions of product (due to seal breakage, for example) onto hot casings or electrical<br/>contacts. Protect from frost, heat and sunlight. Protect from moisture.

### Materials to Avoid Strong oxidizing agents.

## 7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limits	oil mist : 10mg/m <sup>3</sup> , for 15 minutes
	oil mist : 5mg/m <sup>3</sup> , for 8 hours***

Legend

See section 16

### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	



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Reaction products of			12.5 mg/kg/8h (dermal)	
bis(4-			8.56 mg/m <sup>3</sup> /8h	
methylpentan-2-yl)dithiop			(inhalation)	
hosphoric acid with			(ECHA CHEM)	
phosphorus oxide,				
propylene oxide and				
amines, C12-14 alkyl				
(branched) ***				
^				
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	0		Long tonin, cyctonic	Long term, local chects
	effects		effects	Long term, local chects
Reaction products of	· •		effects	
	· •			
Reaction products of	effects		effects 6.25 mg/kg/24h (dermal)	
Reaction products of bis(4-	effects		effects 6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h	
Reaction products of bis(4- methylpentan-2-yl)dithiop	effects		effects 6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h (inhalation)	
Reaction products of bis(4- methylpentan-2-yl)dithiop hosphoric acid with	effects		effects 6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h (inhalation) 0.25 mg/kg/24h (oral)	
Reaction products of bis(4- methylpentan-2-yl)dithiop hosphoric acid with phosphorus oxide,	effects		effects 6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h (inhalation) 0.25 mg/kg/24h (oral)	
Reaction products of bis(4- methylpentan-2-yl)dithiop hosphoric acid with phosphorus oxide, propylene oxide and	effects		effects 6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h (inhalation) 0.25 mg/kg/24h (oral)	
Reaction products of bis(4- methylpentan-2-yl)dithiop hosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl	effects		effects 6.25 mg/kg/24h (dermal) 2.2 mg/m <sup>3</sup> /24h (inhalation) 0.25 mg/kg/24h (oral)	

(PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Reaction products	0.0012 mg/l	3.13 mg/kg	2.54 mg/kg soil		24.33 mg/L	10 mg/kg food
of bis(4-	(freshwater)	(freshwater)	dw (ECHA		(ECHA CHEM)	(ECHA CHEM)
methylpentan-2-yl)di	0.12 µg/L (marine		CHEM)			
thiophosphoric acid	water)	(marine water)				
with phosphorus	(ECHA CHEM)	(ECHA CHEM)				
oxide, propylene						
oxide and amines,						
C12-14 alkyl						
(branched) ***						
^						

8.2. Exposure controls

### **Occupational Exposure Controls**

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### **Personal Protective Equipment**

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.



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Respiratory protection	When workers are facing concentrations above the exposure limit appropriate certified respirators. Respirator with combination filter 14387). The use of breathing apparatus must comply strictly with t instructions and the regulations governing their choices and uses.	for vapour/particulate (EN		
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shie	Ids.		
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long	sleeved clothing.		
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Pleat instructions regarding permeability and breakthrough time which a supplier of the gloves. Also take into consideration the specific loc- the product is used, such as the danger of cuts, abrasion. If used i other substances, and under conditions which differ from EN 374, the EC approved gloves.	re provided by the al conditions under which in solution, or mixed with		

## Environmental exposure controls

9.2. Other information

**General Information** 

The product should not be allowed to enter drains, water courses or the soil.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor		No information available liquid No information available	
Property pH Boiling point/boiling range	Values	<b>Remarks</b> Not applicable No information available	<u>Method</u>
Flash point	<b>&gt; 60 °C</b> > 140 °F		
Evaporation rate	-	No information available***	
Flammability Limits in Air		No information available	
Vapor Pressure	< 110 kPa @ 20 °C		
Vapor density		No information available***	
Density	947*** kg/m <sup>3</sup>	@ 15 °C***	ISO 3675***
Water solubility		Insoluble***	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Viscosity, kinematic		No information available	
Explosive properties	Not explosive		
Oxidizing Properties	No information available		
Possibility of hazardous reactions	No data available		

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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

**Conditions to Avoid** 

Stability

### 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

### 10.4. Conditions to Avoid

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

## 10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

## 10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use.

### 11. TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

### Acute toxicity Local effects Product Information

Skin contact	. Repeated exposure may cause skin dryness or cracking. May produce an allergic reaction.
Eye contact	. Not classified.
Inhalation	. Not classified.
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphta (petroleum)hydrotreated heavy	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	



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Reaction products of bis(4- methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) ***	LD50 = 2000 mg/kg bw (rat - OECD TG 401) (ECHA CHEM)	-	-
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## Sensitization

Sensitization

Contains sensitizer(s). May produce an allergic reaction.

## Specific effects

**Carcinogenicity** This product is not classified carcinogenic.

Chemical Name		European Union	
Naphta (petroleum)hy 64742-4		-	
Mutagenicity	This product is not classified	ed as mutagenic.	
Chemical	Name	European Union	
Naphta (petroleum)hy 64742-4		-	
Reproductive toxicity         This product does not present any known or suspected reproductive hazards.           Repeated Dose Toxicity         This product does not present any known or suspected reproductive hazards.		sent any known or suspected reproductive hazards.	
Subchronic toxicity	No information available.		
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information available.		
Other information			
Other adverse effects	Characteristic skin lesions exposures (contact with co	(pimples) may develop following prolonged and repeated ontaminated clothing).	
12. ECOLOGICAL INFORMATION			

## 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Acute aquatic toxicity - Product Information

No experimental data available .\*\*\*

#### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Naphta		LC50 (96h) = 2.6 mg/L	LC50 (96h) = 2200 mg/L	
(petroleum)hydrotreated		Chaetogammarus marinus	Pimephales promelas ()	
heavy				
64742-48-9				



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Zinc alkyl dithiophosphate 68649-42-3	EC50 (48h) 1 - 1.5 mg/L Daphnia magna	LC50 (96h) 1.0-5.0 mg/L Pimephales promelas (static) LC50 (96h) 10.0-35.0 mg/L Pimephales promelas (semi-static)	
Reaction products of bis(4- methylpentan-2-yl)dithiophos phoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) ***		LL50 (96h) ca. 24 mg/L (Oncorhynchus mykiss - OECD TG 203) (ECHA CHEM)	

## Chronic aquatic toxicity • Product Information

No information available.

### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Reaction products of bis(4- methylpentan-2-yl)dithiophos phoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) ***		EL50 (21d) 0.91 mg/L (Daphnia magna - OECD TG 211) (ECHA CHEM)	-	EC50 (3h) ca. 2433 mg/L (Activated Sludge, domestic - OECD TG 209) (ECHA CHEM)

## Effects on terrestrial organisms

No information available.

## 12.2. Persistence and degradability

#### General Information

No information available.

## 12.3. Bioaccumulative potential

....**,** ...

#### **Product Information**

No information available.

No information available

C	Component Information	
	Chemical Name	log Pow
	Reaction products of bis(4- methylpentan-2-yl)dithiophosphoric acid with bhosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) *** - ^	

12.4. Mobility in soil

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Soil

logPow

No information available.



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Air	No information available.		
Water	The product is insoluble and floats on water.		
12.5. Results of PBT and	vPvB assessment		
PBT and vPvB assessment	No information available.		
12.6. Other adverse effec	<u>ts</u>		
13. DISPOSAL CONSIDERA	TIONS		
13.1. Waste treatment methods			
Waste from Residues / Unused Products	Should not be released into the environment. Do not empty into drains. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.***		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.		
EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.		

## 14. TRANSPORT INFORMATION

ADR/RID_	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
ADN UN/ID No	*** UN9003***
Proper shipping name	Substances with a flash-point above 60 degrees C and not more than 100 degrees C solution***
Proper shipping name Hazard class	SUBSTANCES WITH A FLASH POINT ABOVE 60°C AND NOT MORE THAN 100°C*** 9***
Description	UN9003, Substances with a flash-point above 60 degrees C and not more than 100 degrees C solution, 9***



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## 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**European Union** 

International Inventories

EINECS/ELINCS				
TSCA				
DSL	-			
ENCS	-			
IECSC	-			
KECL	-			
PICCS	-			
AICS	-			
NZIOC	-			
Legend				
	Existing Commercial Chemical Substances/EU List of Notified Chemical Substances			
TSCA - United States Toxic Substances Co				
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List				
ENCS - Japan Existing and New Chemical Substances				
CSC - China Inventory of Existing Chemical Substances				
KECL - Korean Existing and Evaluated Chemical Substances				
PICCS - Philippines Inventory of Chemicals and Chemical Substances				
AICS - Australian Inventory of Chemical Su	Ibstances			
NZIOC - New Zealand Inventory of Chemic	als			

Further information

## 15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

### 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable

- R66 Repeated exposure may cause skin dryness or cracking
- R65 Harmful: may cause lung damage if swallowed
- R41 Risk of serious damage to eyes

- R38 Irritating to skin
- R43 May cause sensitization by skin contact
- R22 Harmful if swallowed



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R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Full text of H-Statements referred to under section 2 and 3

H226 - Flammable liquid and vapor H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

#### Abbreviations, acronyms

Legend Section 8			
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

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 Revision Note
 \*\*\* Indicates updated section.

 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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.

End of the safety data sheet