

CARTER VP/CS



Lubricación



Aceite mineral de alto desempeño para engranes cerrados.

APLICACIONES

Engranes cerrados de trabajo pesado

- ◆ **TOTAL CARTER VP/CS** Ha sido desarrollado para engranes cerrados industriales operando bajo muy severas cargas, en humedad, atmosfera caliente y fría.
 - Engranes rectos.
 - Engranes sin fin.
- Para la industria del papel, azúcar, cementera y del acero.

ESPECIFICACIONES

Especificaciones internacionales.

Fabricantes

- ◆ DIN 51517 Part 3 = group CLP
- ◆ NF-ISO 6743-6 categoría CKD
- ◆ AGMA 9005-D94
- ◆ CINCINNATI MILACRON
- ◆ DAVIS BROWN
- ◆ FLENDER (micropitting)
- ◆ US STEEL 224
- ◆ HANSEN TRANSMISSIONS

VENTAJAS

- ◆ Excelente desempeño de la extrema presión: Protección de los dientes en contra del micropitting y altas cargas e incluso en presencia de agua.
- ◆ Excelentes propiedades de anticorrosión. También la protección de partes no sumergidas de la unidad de reducción tanto estática como dinámica (aditivos en fase de vapor)
- ◆ Muy buena estabilidad de temperatura: Tiempo de de la vida del aceite incrementa por lo menos 2 veces.
- ◆ Inerte a los sello y metales que contienen cobre.

Total México S.A de C.V

Av. 8 de Julio 2462, Zona Industrial, CP 44940. Guadalajara, Jalisco, México
Conmutador. (0133) 3812-2300, Fax. (0133) 3810-6264
México (0155) 5311-3161 - Monterrey (0181) 8334-6381
www.total.com.mx

EMPRESA CERTIFICADA ISO 9001 / ISO TS16949

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TOTAL

CARACTERISTICAS

CARACTERISTICAS	METODO	CARTER VP/CS			
		220	320	460	680
Densidad a 15 °C, kg/m ³	ISO 3675	900	904	906	904
Viscosidad a 40°C, cSt	ISO 3104	220	320	460	680
Viscosidad a 100 °C, cSt	ISO 3104	19	23	30	39
Indice de viscosidad	ISO 2909	95	95	95	95
Punto de inflamación °C	ISO 2592	228	232	226	228
Punto de congelación °C	ISO 3016	-21	-18	-12	-9
FZG Micropitting	FVA54/IIV	10	10	10	10
FZG	DIN 51354/2	>13	>13	>13	>13

Los valores típicos mostrados representan un promedio de resultados

CARTER VP/CS_V01122014

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Safety Data Sheet

Product Name : Carter VP CS 460

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Version : 1

Date of issue : 2005/02/18.

MSDS No. : Not available.

Date of previous issue : No Previous Validation.

Label Requirements

Risk phrases : This product is not classified according to the EU regulations.

1. Identification of the substance/preparation and of the company/undertaking

Product name : Carter VP CS 460
Product code :
Use of the substance/preparation : Gear oil.
Supplier : TOTAL South Africa
P.O. Box 579
Saxonwold
2132
Emergency telephone number : +27 11 778 2000
+27 82 551 2753
0860 111 111 (SA Only)

2. Composition/information on ingredients

Substance
Chemical characterization : Petrochemical.

Ingredient name	CAS number	%	EC number	Classification
Base oils amines, c11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	>90 <1.0	279-632-6	Not classified. Xi; R36/38, N; R51/53
acetic acid, (4-nonylphenoxy)- See section 16 for the full text of the R Phrases declared above	3115-49-9	<0.5	221-486-2	C; R34, R43, R22, N; 51/53

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification : Not classified.
Physical/chemical hazards : No known significant effects or critical hazards.
Human health hazards : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.
Environmental hazards : No known significant effects or critical hazards.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

Inhalation : If inhaled, remove to fresh air. Get medical attention if adverse health effects persist or are severe.
Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Skin contact : Remove contaminated clothing and shoes. Wash contaminated skin with soap and water. Get medical attention if irritation develops.
Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
:
:

See section 11 for more detailed information on health effects and symptoms.



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5. Fire-fighting measures

- Extinguishing media : In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.
Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire.
- Special exposure hazards : No specific hazard.
- Hazardous thermal decomposition products : These products are : carbon oxides (CO, CO₂).
- Special protective equipment for fire-fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.
- Remark : If fire can be controlled, cool container with water from unmanned hose holder or monitor nozzles until well after fire is out.

6. Accidental release measures

- Personal precautions : Use suitable protective equipment (Section 8).
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and storage

- Handling : Wash thoroughly after handling.
- Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Outside or detached storage is preferred.

Packaging materials

- Recommended : Use original container. Empty containers retain product residue and can be hazardous.

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
oil mist, mineral	ACGIH TLV (United States, 9/2004). Notes: Adopted Values enclosed are those for which changes are proposed. Consult the Notice of Intended Changes for current proposal. See Notice of Intended changes. STEL: 10 mg/m ³ 15 minute(s). Form: All forms TWA: 5 mg/m ³ 8 hour(s). Form: All forms
Occupational exposure controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hand protection	: Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: nitrile rubber, neoprene.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.



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Skin 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.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid. (Oily liquid.)
Color : Brown.
Odor : Characteristic.

Important health, safety and environmental information

Flash point : Open cup: >200°C (392°F) (Cleveland).
Relative density : 0.9 to 0.91 (15°C / 59°F)
Solubility : Easily soluble in n-octanol.
Insoluble in cold water, hot water.
Octanol/water partition coefficient : The product is more soluble in octanol; log(octanol/water) >6
Viscosity : 460 mm²/sec @ 40 C

Other information

Auto-ignition temperature : >250°C (482°F)

10. Stability and reactivity

Stability : The product is stable.
Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Avoid breathing vapors or spray mists.
Materials to avoid : Reactive with oxidizing agents.
Hazardous decomposition products : carbon oxides (CO, CO₂)

11. Toxicological information

Potential acute health effects

Inhalation : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.

Potential chronic health effects

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.

Over-exposure signs/symptoms

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Target organs : Causes damage to the following organs: skin.
Other adverse effects : Repeated exposure may cause skin oil blisters.



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12. Ecological information

Remarks : Product is not hazardous to water. Not expected to bioaccumulate. Inherently biodegradable

13. Disposal considerations

Methods of disposal : Non-hazardous waste
Recycle, if possible.
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.

14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR / SABS 0228 Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

15. Regulatory information

SABS 0263 / EU Regulations

Risk phrases : This product is not classified according to the EU regulations.
Product use : Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.
- Industrial applications.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe : R36/38- Irritating to eyes and skin.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22- Harmful if swallowed.
R34- Causes burns.
R43- May cause sensitization by skin contact.

Prepared by : TOTAL South Africa Technical Department.

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.