

CORTIS MS



Lubricación



Lubricante mineral de circulación antidesgaste libre de cenizas

APLICACIONES

Lubricante multipropósitos antidesgaste

- ♦ **CORTIS MS** es un lubricante multipropósitos de circulación antidesgaste.
- ♦ **CORTIS MS** satisface los requerimientos técnicos hidrodinámicos de MORGOL y de los rodamientos DANIELI usados en los trenes de laminación.

ESPECIFICACIONES

Especificaciones de los fabricantes

- ♦ DANIELI BGV y ESS rodamientos.
- ♦ MORGOL lubricante y MORGOL lubricante avanzado

VENTAJAS

- ♦ Excelente estabilidad antioxidante y térmica; extendidos intervalos de cambio.
- ♦ Muy buen demulsibilidad en alta y baja temperatura. Pasa la prueba UEC resistencia dinámica de demulsibilidad.
- ♦ Lubricante sin EP, Ofrece buena protección contra la herrumbre y corrosión en alta temperatura.
- ♦ Aditivación libre de cenizas con alta estabilidad hidrolítica: previniendo depósitos y manteniendo buenas propiedades de filtrabilidad.

CARACTERISTICA	METODO	CORTIS MS					
		100	150	220	320	460	680
Viscosidad cinemática a 40°C, cSt	ISO 3104	100	150	220	320	460	680
Densidad a 15°C, kg/m3	ISO 3675	888	893	898	903	907	916
Indice de viscosidad	ISO 2909	98	96	95	95	95	88
Punto de inflamación copa abierta °C	ISO 2592	275	285	300	300	300	320
Punto de escurrimiento °C	ISO 3016	-18	-12	-12	-12	-12	-9
Demulsibilidad a 82°C, min x 3 ml	ASTM D 1401	3	3	4	6	12	15
Demulsibilidad a 52°C							
Libre de agua, ml	ASTM D2711	41	40	36	33	27	30
Agua en aceite %	ASTM D2711	0.6	0.8	2.4	3.0	4.8	4.0
Emulsion, ml	ASTM D2711	0	0	0	0	0	1
Prueba FZG (nivel de falla)	DIN 51354/2	12	>12	>12	>12	>12	>12

Los valores típicos mostrados representan un promedio de resultados

CORTIS MS-V28112014

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
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www.total.com.mx

EMPRESA CERTIFICADA ISO 9001 / ISO TS16949



MSDS

(Material Safety Data Sheet)

SECTION #1 PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: **TOTAL CORTIS MS 150, 220, 320, 460, 550 and 680**

CHEMICAL NAME AND SYNONYMS: MIXTURE

MANUFACTURER/SUPPLIER'S NAME: TOTAL LUBRICANTS CANADA INC.
220, LAFLEUR
LASALLE, QUEBEC
H8R 4C9
Tel.: (514) 595-7579 or 1-800-463-3955

24 HOURS EMERGENCY: Call CHEMTREC 1-800-424-9300 or 703-527-3887

PRODUCT USE: INHIBITED OIL FOR BEARINGS

WHMIS CLASS AND DESCRIPTION -

These products are not regulated by the WHMIS.

SECTION #2 COMPOSITION/INFORMATION ON INGREDIENTS

NOM	%	No CAS
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ADDITIONAL REGULATORY INFORMATION

- No hazardous ingredients as defined by the Canadian Hazardous Products Act (BILL C70) or by OSHA 29 CFR 1910.1200.
- Canadian DSL status: All ingredients are listed.
- * No components of this product have been found carcinogenic or potential carcinogen. Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

SECTION #3 PHYSICAL DATA

PHYSICAL STATE AT 25°C	Liquid
BOILING POINT:	> 250°C
POUR POINT:	< -5°C
DENSITY (g/cm ³ at 15°C):	0,88 to 0,92
VAPOR PRESSURE (mm Hg at 20°C):	Negligible
VISCOSITY (cSt at 100°C):	18 to 138
pH:	No Object
EVAPORATION RATE:	Negligible
SOLUBILITY IN WATER:	Negligible
APPEARANCE ET ODOR:	Yellowish to amber liquid with characteristic odor

SECTION #4 STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid excessive heat, open flames and formation of oil mist.
PRODUCTS TO AVOID:	Oxidizing agents, strong acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A
POLYMERIZATION:	Will not occur

SECTION #5 FIRE FIGHTING MEASURES

FLASH POINT (COC):	> 260°C
FLAMMABILITY LIMITS IN AIR:	LEL: N/A
(% PER VOLUME)	UEL: N/A
AUTOIGNITION TEMPERATURE (°C):	N/A
EXTINGUISHING MEDIA:	Foam, Dry chemical and CO ₂
HAZARDOUS COMBUSTION PRODUCTS:	Normal combustion products, CO and CO ₂ .
SPECIAL FIRE FIGHTING PROCEDURES:	Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers.

SECTION #6 TOXICOLOGICAL INFORMATION

SPECIES	LD ₅₀ ORAL	LD ₅₀ DERMAL	LC ₅₀ INHALATION	HRS
Rat	> 5000 mg/Kg	> 2000 mg/Kg	N/A	---

INHALATION: Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea. Short-term overexposure can cause an irritation to the respiratory passages.
Exposure limit to the mist = 5 mg/m³ (TLV/TWA, ACGIH).

CONTACT WITH EYES: This product should not cause eye irritation. Repeated and prolonged contact may cause eye irritation.

SKIN CONTACT: This product should not cause skin irritation. Prolonged and repeated contact with this product can cause skin drying, which may result in skin irritation and dermatitis.

INGESTION: May cause nausea.

SECTION #7 ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Eliminate all ignition sources. Stop leak only if safe to do so. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

SECTION #8 HANDLING AND STORAGE

STORAGE AND HANDLING: Store in cool, dry, ventilated area, away from heat and ignition sources. Use good personal hygiene. Always keep the container close.

SECTION #9 EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Mechanical ventilation is recommended.

RESPIRATORY PROTECTION: If mist present, chemical cartridge respirator is recommended.

GLOVES: Resistant gloves (Viton, Nitrile, Neoprene) are recommended when handling this material.

EYE PROTECTION: Chemical safety goggles are recommended.

OTHER PROTECTION: In confined spaces or where the risk of skin exposure is higher, resistant clothing or apron should be worn.

SECTION #10 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Consult relevant local authorities. Reclaim or dispose of at a licensed waste disposal company. Incinerate with approval of appropriate local authority.

SECTION #11 FIRST AID

INHALATION: Remove person to fresh air. See a physician if irritation persists.

CONTACT WITH EYES: Flush immediately with water for at least 15 minutes.

CONTACT WITH SKIN: Wash contaminated skin with mild soap and water. See a physician if irritation persists.

INGESTION: This product has a low toxicity. May cause nausea and have a laxative effect. Do not induce vomiting. Contact an Anti-Poison Center (1-800-463-5060).

SECTION #12 HAZARDS IDENTIFICATION

INHALATION: Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea. Short-term overexposure can cause an irritation to the respiratory passages.
Exposure limit to the mist = 5 mg/m³ (TLV/TWA, ACGIH).

CONTACT WITH EYES: This product should not cause eye irritation. Repeated and prolonged contact may cause eye irritation.

SKIN CONTACT: This product should not cause skin irritation. Prolonged and repeated contact with this product can cause skin drying, which may result in skin irritation and dermatitis.

INGESTION: May cause nausea.

SECTION #13 ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

BIODEGRADABILITY: NOT READILY BIODEGRADABLE.

