

# 國光牌錠子油

## CPC Spindle Oil

1. 為專供紡織工業錠子潤滑用之高性能錠子油 (Spindle Oil)，安定性良好，減低機件之磨損。  
其中R12、R22另含抗氧化及防銹添加劑，潤滑效果更佳。
2. 本類潤滑油因具優良之溶解污垢能力，故常用於沖洗各種機械，引擎之用。
3. 包裝：200公升桶裝 (M12及M22可在產地散裝發貨)。
4. 本類油料之代表性檢驗結果如下：

代 表 性 檢 驗 結 果		國光牌特級錠子油		國光牌高級錠子油	
號	別 Grade No.	R12	R22	M12	M22
美 制 比 重	Gravity, ° API 15.6°C	31.2	30.8	31.0	31.0
粘 度	Viscosity				
	Kin: cSt @ 40°C	12.9	23.4	13.3	22.8
	100°C	3.10	4.40	3.20	4.40
	SUS: Sec @ 100°F	73.6	122	71.1	120
	210°F	36.7	42.1	36.4	41.5
粘 度 指 數	Viscosity index	88	97	87	98
流 動 點	Pour Point °C(°F)	-15(+5)	-15(+5)	-12(+10.4)	-12(+10.4)
閃 火 點	Flash Point COC:°C(°F)	177(350)	204(400)	177(350)	202(395)
顏 色	Color, ASTM D 1500	0.5	0.5	0.5	0.5
中 和 值	Neutralization No.				
	Total Acid No.	0.05	0.05	0.05	0.05
粘 度 級 數	ISO VG Grade	12	22	12	22
產 品 編 號		LA76301	LA76303	LA76835	LA76539

**INSTRUCTION FOR STORING AND HANDLING**

**STORAGE:**

- Pumping, recommended: 40°C - 50°C, Maximum: 70°C
- Blending in base oil, Temp., recommended: 30°C - 40°C, Maximum: 70°C
- Long-Term storing, Maximum: 49°C
- Avoid overheating or contamination by water
- Large product quantities are usually stored in tanks of various constructions, made of carbon steel; smaller quantities are stored in barrels and drums.
- Corrosion of tanks must be prevented by protective coating, etc.
- Barrels and drums should be stored under a roof to prevent the effect of sunshine.

**HANDLING:**

- As a standard practice, CSLC recommends the use of rubber gloves and goggles when handling this material.
- The agent is toxic orally and irritate to the eyes and skin, and contact with the agent should be avoided.

# MATERIAL SAFETY DATA SHEET

CREATED: 1993/03/07

REVISED: 2010/01/06

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SECTION 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
TRADE NAME:	CS70SN
SYNONYM:	Lubricant mixture
CHEMICAL FAMILY:	Petroleum Hydrocarbon
CAS NUMBER:	--
UN/NA NUMBER:	--
SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS	
COMPONENT:	70 SN A complex mixture of petroleum hydrocarbons
ADDITIVES:	None
SECTION 3 HAZARDS IDENTIFICATION	
NFPA RATINGS (SCALE 0-3): HEALTH=1 FIRE=1 REACTIVITY=0	
CARCINOGEN STATUS: Not available	
The toxicity of 70 SN has not been fully quantified. The major sites affected by petroleum derived oils are the lungs and skin.	
SECTION 4 FIRST AID MEASURES	
INHALATION:	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.
SKIN CONTACT:	Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 - 20 minutes). Get medical attention immediately.
EYE CONTACT:	Wash eyes immediately with large amounts of water or normal saline (approximately 15 - 20 minutes). Get medical attention immediately.
INGESTION:	Do not induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively. Get medical attention.

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SECTION 5 FIRE-FIGHTING MEASURES	
FLASH POINT COC °C	162
FLAMMABLE LIMITS	--
AUTOIGNITION TEMPERATURE	--
FIREFIGHTING MEDIA	Water fog, standard foam, dry chemical or carbon dioxide. Do not use a direct stream of water.
FIRE FIGHTING	Use water spray to cool fire exposed surfaces and to protect personnel. Move container from fire area if possible. Do not scatter spilled material with high-pressure water streams. Respiratory and eye protection required for fire fighting personnel. Dike fire-control water for later disposal.
SECTION 6 ACCIDENTAL RELEASE MEASURES	
OCCUPATIONAL SPILL: Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into clean, dry containers for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry.	
SECTION 7 HANDLING AND STORAGE	
HANDLING: Avoid prolonged or repeated contact with the skin or breathing of vapors, mists, or fumes.	
STORAGE: Keep containers tightly closed. Do not store or mix with oxidants.	
OTHERS: Do not wear contaminated clothing, launder before reuse., or discard. Wash skin thoroughly with soap and water and/or waterless skin cleanser after handling. Clean empty containers properly and thoroughly before discarding or reuse.	

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
Mineral oil mist	EXPOSURE LIMIT: 8 Hr. TWA STEL OSHA 5 mg/m3 ---
INHALATION PROTECTION	Not normally required. Particulated filter respirator for concentrations exceeding the occupational exposure limit. Special application may necessitate the use of more stringent respiratory protection equipment.
CLOTHING	Wear oil impervious clothing. Avoid wearing oil soaked clothing.
GLOVES	polyethylene, polyvinyl alcohol, butyl rubber or neoprene gloves. Oil-impervious garments if contact is unavoidable.
EYE PROTECTION	Chemical goggles
ADDITIONAL PROTECTIVE MEASURE	Use ventilation is recommended when the occupational exposure limit is exceeded.
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE/ODOR:	Clear, yellow liquid
GRAVITY	0.858 ~ 0.871 at 60°F
BOILING POINT	---
MELTING POINT	---
VAPOR PRESSURE	<0.1 mmHg at 20°C
VAPOR DENSITY (AIR=1)	>1
EVAPORATION RATE (BUTYL ACETATE =1)	<0.1
SOLUBILITY IN WATER	<0.1%
SECTION 10 STABILITY AND REACTIVITY	
REACTIVITY:	Stable under normal temperatures and pressures.
INCOMPATIBILITIES:	Strong oxidizers
DECOMPOSITION:	Thermal decomposition products are highly dependent on the combustion conditions. Thermal decomposition products may include toxic oxides of carbon.
POLYMERIZATION	Will not occur under normal temperatures and pressures.

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<b>SECTION 11 TOXICOLOGICAL INFORMATION</b>	
ACUTE TOXICITY DATA	>5 gm/Kg oral-mouse LD50, >2 gm/Kg skin-rat LD 50
INHALATION	Repeated or prolonged exposure to vapors, fumes or mists may cause irritation of the respiratory tract.
SKIN	Repeated or prolonged contact may cause irritation and/or other skin effects relating to clogging of the pores of the skin.
EYE	No specific data available. Generally oils of this type cause no more than minimal irritation.
INGESTION	Low in oral toxicity
<b>SECTION 12 ECOLOGICAL INFORMATION</b>	
ENVIRONMENTAL IMPACT RATING (0-3):	No data available
ACUTE AQUATIC TOXICITY:	No data available
DEGRADABILITY:	No data available
LOG BIOCONCENTRATION FACTOR (BCF):	No data available
LOG OCTANOL / WATER PARTITION:	No data available
<b>SECTION 13 DISPOSAL INFORMATION</b>	
Disposal must be in accordance with local EPA's regulations.	
<b>SECTION 14 TRANSPORTATION INFORMATION</b>	
Transportation over land ADR/RID NOT REGULATED FOR TRANSPORT	
Transportation over sea IMDG NOT REGULATED FOR TRANSPORT	
Transportation over air ICAO/IATA NOT REGULATED FOR TRANSPORT	
Observe all federal, state and local regulations.	
<b>SECTION 15 REGULATORY INFORMATION</b>	
Based on information available, this product does not contain any chemical substance regulated by a specific list.	
<b>SECTION 16 OTHER INFORMATION</b>	