

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME Wire Rope Lube

PRODUCT USE

MANUFACTURER Anglo Design Pty Ltd
PO Box 62
Mt Kuringai, NSW 2080 Australia
Telephone: 61 2 9457 8566 Fax: 61 2 9457 8057

CONTACT PERSON Michael Croasdale

EMERGENCY TELEPHONE 61 2 9457 8566

Date of last issue 1st April 2011

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*PETROLEUM RESINS	64742-16-1	40-60 wt%
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	Mixture	30-50 wt%
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	Proprietary	10-20 wt%

* This chemical(s) is hazardous according to OSHA/WHMIS criteria

COMPOSITION COMMENTS

The identity of chemical ingredients not regulated by U.S. or Canadian Federal or Regional Regulations (e.g. regulations such as OSHA HCS, EPA (TSCA , CAA and RCRA), HC WHMIS and EC CEPA) are treated confidentially and are not disclosed above.

**(7) The petroleum residual oils for this product can be a mixture of any of the following highly refined petroleum streams:
CAS NO 64741-95-3, CAS NO 64742-01-4, CAS NO 64742-57-0, CAS NO 64742-62-7, CAS NO 72623-83-7 and CAS NO 72623-87-1. Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and/or hydrotreating to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.
Refer to section eight (8) for exposure limits on ingredients.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not regarded as a health or environmental hazard under current legislation.

HEALTH HAZARDS, GENERAL

Exposure to vapors generated at high temperatures may cause respiratory irritation. Spray mist can irritate airways and lungs.

INHALATION

Inhalation hazard at room temperature is unlikely due to the low volatility of this product. High concentrations of mists or aerosols may cause irritation to the respiratory tract.

INGESTION

May cause discomfort if swallowed. May cause stomach pain or vomiting.

SKIN

Repeated and/or prolonged skin contact may cause irritation.

EYES

May cause mild eye irritation.

SENSITIZATION

Not known to be a sensitizer.

CARCINOGENICITY

No components listed by IARC, NTP, OSHA, NIOSH, US EPA, ACGIH, ECHA or Health Canada as a carcinogen are present at 0.1% or more.

TERATOGENICITY

No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

MUTAGENICITY

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

HEALTH WARNINGS

INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin.

EYE CONTACT. May cause slight eye irritation.

INGESTION. Can cause stomach ache and vomiting.

ROUTE OF ENTRY

Inhalation. Skin and/or eye contact. Ingestion.

TARGET ORGANS

Eyes. Respiratory system, lungs. Mucous membranes. Skin.

4. FIRST AID MEASURES

GENERAL

Remove affected person from source of contamination.
Do not give victim anything to drink if he is unconscious.

INHALATION

Move the exposed person to fresh air at once.
For breathing difficulties oxygen may be necessary.
When risk of unconsciousness, place and transport the victim in secured sideposition.
When unconscious, loosen tight clothing and position in secured sideposition.
Get medical attention if any discomfort continues.

EYES

Promptly wash eyes with lots of water while lifting the eye lids.
Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes.
Continue to rinse for at least 15 minutes and get medical attention.
Get medical attention if any discomfort continues.

SKIN

Remove affected person from source of contamination.
Remove contaminated clothing.
Wash skin thoroughly with soap and water.

INGESTION

Get medical attention if any discomfort continues.
Launder contaminated clothing before reuse.

Never give anything by mouth to an unconscious person.
Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
When unconscious, loosen tight clothing and position in secure sideposition.
Consult a physician for specific advice.
Contact your local poison control center or get medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	180 C (356 F) Cd OC (Cleveland open cup).
AUTO IGNITION TEMP. (°C)	No data available
EXTINGUISHING MEDIA	Use: Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).
SPECIAL FIRE FIGHTING PROCEDURES	Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Caution should be exercised when using water or foam as frothing may occur. Keep run-off water out of sewers and water sources. Dike for water control.
UNUSUAL FIRE & EXPLOSION HAZARDS	Pressure will increase in over heated, closed containers. May ignite at very high temperatures.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon. Nitrogen. Sulfur.
PROTECTIVE MEASURES IN CASE OF FIRE	Should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact. Remove sources of ignition.
PRECAUTIONS TO PROTECT THE ENVIRONMENT	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
SPILL CLEAN-UP PROCEDURES	Contain spill. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Do not reuse container. Keep lid closed when not in use. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash station should be available at the work place. Keep away from heat, sparks and open flame. Containers should be kept tightly closed.
STORAGE PRECAUTIONS	Keep container closed when not in use. Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers.
STORAGE CRITERIA	Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
PETROLEUM RESINS	OSHA	None	None	5 mg/m3 (oil mist)	None
	ACGIH	None	None	5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	OSHA	None	None	5 mg/m3 (oil mist)	None
	ACGIH	None	None	5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	OSHA	15 mg/m3 (total)	as CaCO3	5 mg/m3 (resp)	as CaCO3
	ACGIH	1 mg/m3 (inh)	NIC 2005	10 mg/m3 **(e)	as CaCO3

PROTECTIVE EQUIPMENT



ENGINEERING CONTROLS

Use engineering controls to reduce air contamination to permissible exposure level. Provide hand washing and standard hygiene facilities.

VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES

Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

PROTECTIVE CLOTHING

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES

Wash promptly with soap & water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated. Isolate contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE	Grease.
COLOR	Dark. Grey.
ODOR	Mild (or faint).
SOLUBILITY DESCRIPTION	Insoluble in water.
SPECIFIC GRAVITY	0.9600

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid contact with acids. Strong oxidizing agents.
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon. Nitrogen. Sulfur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION No experimental toxicological data on the preparation as such is available.

COMPONENT	PETROLEUM RESINS
TOXICOLOGICAL DATA	WHMIS (Canada) not listed Irritating effects. Eye. no data available Irritating effects. Skin. no data available Carcinogenicity. no data available Sensitization. no data available
TOXIC DOSE - LD 50	7,000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	No data available
TOXIC CONC. - LC 50	No data available
COMPONENT	RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)
TOXICOLOGICAL DATA	WHMIS (Canada) not listed Irritating effects. Eye. no data available Irritating effects. Skin. no data available Carcinogenicity. no data available Sensitization. no data available
TOXIC DOSE - LD 50	> 2000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2000 mg/kg (skn rbt)
TOXIC CONC. - LC 50	> 5 mg/l/4h (inh-rat)
COMPONENT	OVERBASED CALCIUM SULFONATE COMPLEX THICKENER
TOXICOLOGICAL DATA	WHMIS (Canada) Not Controlled Irritating effects. Eye. No data available Irritating effects. Skin. No data available Carcinogenicity. No data available Sensitization. No data available
TOXIC DOSE - LD 50	> 2,000 (Read across) mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2,000 (Read across) mg/kg (skn rbt)
TOXIC CONC. - LC 50	> 0.5 (Read across) mg/l (inh-rat)

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION There is no ecological data on the product itself.

BIOACCUMULATION No bioaccumulation expected.

BIODEGRADABILITY The chemical is slowly, not readily biodegradable.

COMPONENT

PETROLEUM RESINS

ECOTOXICOLOGICAL DATA

WGK not listed
Bioaccumulation. no data available
Biodegradability. no data available

LC50, 96 HRS, FISH, mg/l
EC50, 48 HRS, DAPHNIA, mg/l
EC50, 72 HRS, ALGAE, mg/l

no data available
no data available
no data available

COMPONENT

RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK(7)**

ECOTOXICOLOGICAL DATA

WGK not listed
Bioaccumulation. no data available
Biodegradability. no data available

LC50, 96 HRS, FISH, mg/l
EC50, 48 HRS, DAPHNIA, mg/l
EC50, 72 HRS, ALGAE, mg/l

No data available
No data available
No data available

COMPONENT

OVERBASED CALCIUM SULFONATE COMPLEX THICKENER

ECOTOXICOLOGICAL DATA

WGK = 2 Self assessment
Biodegradability. No data available
Bioaccumulation. No data available

LC50, 96 HRS, FISH, mg/l
EC50, 48 HRS, DAPHNIA, mg/l
EC50, 72 HRS, ALGAE, mg/l

No data available
No data available
No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

WASTE CLASSIFICATION Under RCRA it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for a hazardous waste. State and local regulations should also be consulted regarding proper disposal.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME Not regulated

TDGR SHIPPING NAME Not regulated

SEA TRANSPORT NOTES Not regulated per IMDG.

15. REGULATORY INFORMATION**US FEDERAL REGULATIONS**

COMPONENT	SARA 302	CERCLA	SARA 313
PETROLEUM RESINS	No	No	No
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	No	No	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
PETROLEUM RESINS	No
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No

SARA HAZARD CATEGORIES Acute

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
PETROLEUM RESINS	No	No	No	No	No	No	No
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	No	No	No	No	No	No	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No	No	No	No	No

STATE REGULATORY STATUS CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:
Crystalline silica, cancer hazard, CAS# 14808-60-7 , <100 ppm.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

CONTROLLED PRODUCT CLASSIFICATION Not a controlled product.

Risk phrases Risk Phrases and Classification Applicable in the European Union (EU):

Not classified as hazardous per Directives 67/548/EEC and 1999/45/EEC as well as Regulations (EC) No 1907/2006 and 1272/2008.

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
PETROLEUM RESINS	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

COMPONENT	TSCA 12(b) Export Notification
PETROLEUM RESINS	No
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No

USA (TSCA)	All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.
CANADA (DSL)	All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.
EUROPE (EINECS/ELINCS/NLP)	All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.
JAPAN (ENCS)	All components in this product are listed on the Japan Inventory of Existing and New Chemical Substances (ENCS) or are exempt from ENCS requirements.
PHILIPPINES (PICCS)	All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements.
AUSTRALIA (AICS)	All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.
KOREA (ECL)	All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.
CHINA (IECS)	All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are exempt from IECS requirements.

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH	Irritation, minor residual injury (1) - HMIS/NFPA
FLAMMABILITY	Burns only if pre-heated (1) - HMIS/NFPA
REACTIVITY	Normally stable (0) - HMIS/NFPA
PERSONAL PROTECTION INDEX	B - Safety Eyewear and Gloves
NPCA HMIS FLAMMABILITY INDEX	Burns only if pre-heated (1).
Tariff Code (Schedule B)	US EXPORT: US HTS SCHEDULE B CODE (2010): 2710.19.3750 Lubricating greases, with or without additives. US IMPORT: US HTS CODE (2010): 2710.19.3500 Petroleum oils ... Lubricating oils and greases ... Greases: Containing not over 10 percent by weight of salts of fatty acids of animal (including marine animal) or vegetable origin
PREPARED BY	Regulatory Department, Chemtool, Incorporated
REVISION No.	1.1
MSDS No.	14314
DATE	1 st April 2011
DISCLAIMER	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.

* Information revised since previous MSDS version

PRINTING DATE: 1st April 2011