



SAFETY DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

ISSUED APRIL 2018 (VALID 5 YEARS FROM THE DATE OF ISSUE)

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SUPPLIER	CHEMTOOLS PTY LTD	PHONE	1300 738 250 (Business Hours)
ADDRESS	Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760	FAX	02 9623 3670
		WEBSITE	www.chemtools.com.au

PRODUCT NAME	DEOX R41 High Grade Blue Lithium Complex Grease		
PART NUMBER	CT-R41	PRODUCT TYPE	Grease
PRODUCT USE	Mechanical lubrication		
CREATION DATE	September 2016	LATEST REVISION DATE	Refer to date of issue above

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazardous Nature	This product is NOT HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).
SUSMP Classification	Not scheduled.
ADG Classification	None allocated. NOT A DANGEROUS GOOD according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code).
UN Number	None allocated.
GHS Signal Word	None allocated.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Chemical Entity	Formula	CAS Number	Proportion
Lithium Complex Soap	No Data Available	Proprietary	10.0 – 30.0%
Phosphorodithioic acid, O, O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	No Data Available	85940-28-9	1.0 – 5.0%

SECTION 4: FIRST AID MEASURES

Description of necessary measures according to routes of exposure:

If Swallowed	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do NOT induce vomiting unless under the direction of medical personnel.
If In Eyes	Wash out eye/s with plenty of water for at least 15 minutes. Obtain medical attention if soreness or redness persists.
If On Skin	Wash skin with soap and water. If grease has been injected under the skin, seek medical advice immediately.

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If Inhaled	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie, or belt. Get medical attention if symptoms are severe or persist.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No Data Available.

SECTION 5: FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Flammability Conditions	This product is not flammable.
Extinguishing Media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Hazardous Products of Combustion	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains, or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).
Flash Point	> 200°C
Lower Explosion Limit	No Data Available.
Upper Explosion Limit	No Data Available.
Auto Ignition Temperature	No Data Available.
Hazchem Code	No Data Available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Response Procedure	Avoid accidents, clean up immediately. May be slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.
Clean Up Procedures	Wear protective clothing as described in Section 8. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains.
Containment	Stop leak if safe to do so. Isolate the danger area.
Environmental Precautionary Measures	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

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**Evacuation Criteria
Personal Precautionary
Measures**

Evacuate all unnecessary personnel.
Personnel involved in the clean up should wear full protective clothing as listed in Section 8.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid direct contact with the substance. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin, and clothing. Do not inhale product dust/fumes.

Storage

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in Section 10. Protect from direct sunlight, moisture, and static discharges. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Containment

Store in original packaging as approved by manufacturer.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

2-butoxyethanol:
Long-term exposure limit (8 hour TWA): WEL 25ppm 123mg/m³
Short-term exposure limit (15-minute): WEL 50ppm 246mg/m³
Potassium Hydroxide:
Short-term exposure limit (15-minute): WEL 2mg/m³
WEL = Workplace Exposure Limit

Biological Limits

No information available on biological limit values for this product.

Engineering Measures

Sk = Can be absorbed through the skin
A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the containment at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.

Personal Protection Equipment

RESPIRATOR: Wear a P1 or P2 particulate respirator when handling this product (AS1715/1716)

EYES: Safety glasses with side shields (AS1336/1337)

HANDS: Neoprene gloves (AS2161)

CLOTHING: Long-sleeved protective coveralls and safety footwear (AS3765/2210)

Special Hazards Precautions

No Data Available.

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Work Hygienic Practices

Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking, and using the toilet. Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Grease
Odour	Almost odourless
Colour	Blue
pH	No Data Available.
Vapour Pressure	No Data Available.
Relative Vapour Density	No Data Available.
Boiling Point	No Data Available.
Melting Point	> 260°C
Freezing Point	No Data Available.
Solubility	No Data Available.
Specific Gravity	No Data Available.
Flash Point	> 200°C
Auto Ignition Temperature	No Data Available.
Evaporation Rate	No Data Available.
Bulk Density	No Data Available.
Corrosion Rate	No Data Available.
Decomposition Temperature	No Data Available.
Density	No Data Available.
Specific Heat	No Data Available.
Molecular Weight	No Data Available.
Net Propellant Weight	No Data Available.
Octanol Water Coefficient	No Data Available.
Particle Size	No Data Available.
Partition Coefficient	No Data Available.
Saturated Vapour Concentration	No Data Available.
Vapour Temperature	No Data Available.
Viscosity	No Data Available.
Volatile Percent	No Data Available.
VOC Volume	No Data Available.
Additional Characteristics	No Data Available.
Potential for Dust Explosion	No Data Available.
Fast or Intensely Burning Characteristics	No Data Available..
Flame Propagation or Burning Rate of Solid Materials	No Data Available.

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Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available.
Properties That May Initiate or Contribute to a Fire	No Data Available.
Reactions That Release Gases or Vapours	No Data Available.
Release of Invisible Flammable Vapours and Gases	No Data Available.

SECTION 10: STABILITY AND REACTIVITY

General Information	There are no known reactivity hazards associated with this product.
Chemical Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Conditions to Avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to Avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous Decomposition Products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
Hazardous Polymerisation	Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

General Information	Contains a substance that may be potentially carcinogenic. IARC Group 2B – possibly carcinogenic to humans.
Eye Irritant	May be slightly irritating to eyes.
Skin Irritant	Prolonged contact may cause dryness of the skin.
Ingestion	Acute Toxicity Estimate – Oral ATE Oral: 3,900. 16mg/kg
Inhalation	No specific symptoms known.
Carcinogen Category	No

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No Data Available.
Persistence/Degradability	The degradability of the product is not known.
Mobility	No Data Available.
Environmental Fate	Do NOT let product reach waterways, drains, and sewers.
Bioaccumulation Potential	No data available on bioaccumulation.

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Environmental Impact No Data Available.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local, state, and federal regulations. All empty packaging should be disposed of in accordance with local, state, and federal regulations or recycled/reconditioned at an approved facility.

Special Precautions for Landfill Contact a specialist disposal company or the local waste regulator for advice. Incinerate at an approved site following all local regulations. This material may be suitable for approved landfill.

SECTION 14: TRANSPORT INFORMATION

Land Transport (Australia)	ADG Code
Proper Shipping Name	DEOX R41 High Grade Blue Lithium Complex Grease
Class	No Data Available.
Subsidiary Risk/s	No Data Available.
UN Number	No Data Available.
Hazchem	No Data Available.
Packing Group	No Data Available.
Special Provision	No Data Available.

Sea Transport	IMDG Code
Proper Shipping Name	DEOX R41 High Grade Blue Lithium Complex Grease
Class	No Data Available.
Subsidiary Risk/s	No Data Available.
UN Number	No Data Available.
Hazchem	No Data Available.
Packing Group	No Data Available.
Special Provision	No Data Available.
EMS	No Data Available.
Marine Pollutant	No.

Air Transport	IATA DGR
Proper Shipping Name	DEOX R41 High Grade Blue Lithium Complex Grease
Class	No Data Available.
Subsidiary Risk/s	No Data Available.
UN Number	No Data Available.
Hazchem	No Data Available.
Packing Group	No Data Available.

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Special Provision No Data Available.

Dangerous Goods Classification: NOT a Dangerous Good according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

SECTION 15: REGULATORY INFORMATION

General Information No Data Available.
Poisons Schedule (Australia) Not scheduled.

National/Regional Inventories:

Australia	Listed
Canada (DSL)	Not Determined.
Canada (NDSL)	Not Determined.
China (IECSC)	Not Determined.
Europe (EINECS)	Not Determined.
Europe (REACH)	Not Determined.
Japan (ENCS/METI)	Not Determined.
Korea (KECI)	Not Determined.
Malaysia (EHS Register)	Not Determined.
New Zealand (NZIoC)	Not Determined.
Philippines (PICCS)	Not Determined.
Switzerland (Giftliste 1)	Not Determined.
Switzerland (Inventory of Notified Substances)	Not Determined.
Taiwan (NCSR)	Not Determined.
USA (TSCA)	Not Determined.

SECTION 16: OTHER INFORMATION

KEY/LEGEND

<	Less Than
>	Greater Than
AICS	Australian Inventory of Chemical Substances
atm	Atmosphere
CAS	Chemical Abstracts Service (Registry Number)
cm ²	Square Centimetres
CO ₂	Carbon Dioxide
COD	Chemical Oxygen Demand
°C	Degrees Celsius
EPA (New Zealand)	Environmental Protection Authority of New Zealand

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°F	Degrees Fahrenheit
g	Grams
g/cm ³	Grams per Cubic Centimetre
g/l	Grams per Litre
HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
Immiscible	Liquids are insoluble in each other
inHg	Inch of Mercury
inH ₂ O	Inch of Water
K	Kelvin
kg	Kilogram
kg/m ³	Kilograms per Cubic Metre
lb	Pound
LC50	LC stands for Lethal Concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or L	Litre
m ³	Cubic Metre
mbar	Millibar
mg	Milligram
mg/24H	Milligrams per 24 Hours
mg/kg	Milligrams per Kilogram
mg/m ³	Milligrams per Cubic Metre
Misc or Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm	Millimetre
mmH ₂ O	Millimetres of Water
mPa.s	Millipascals per Second
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-operation and Development
Oz	Ounce
PEL	Permissible Exposure Limit
Pa	Pascal
Ppb	Parts per Billion
ppm/2H	Parts per Million per 2 Hours
Psi	Pounds per Square Inch
R	Rankine
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit

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TLV	Threshold Limit Value
tn	Tonne
TWA	Time Weighted Average
ug/24H	Micrograms per 24 Hours
UN	United Nations
wt	Weight

This SDS is prepared in accordance with the Safe Work Australia (SWA) document, entitled: **Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice (February 2016)**.

This Safety Data Sheet (SDS) summarises our best knowledge of the Health and Safety Hazard information pertaining to this product, including how to safely handle and use the product in the workplace.

Each user must review this SDS in the context of the how the product will be handled and used. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact **Chemtools Pty Ltd**, whereby we will attempt to obtain additional information from our suppliers.

Our responsibility for products sold is subject to our Terms and Conditions, a copy of which is sent to our customers and is also available upon request.

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SAFETY DATA SHEET BY **CHEMTOOLS PTY LTD** (ABN 12 114 400 083) • HEAD OFFICE/MANUFACTURING FACILITY: UNIT 2, 14 - 16 LEE HOLM ROAD ST MARYS NSW 2760

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