

Safety Data Sheet (Australia)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

arcanol LOAD150

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- 1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Schaeffler Australia

Ground Floor

Suite 3, 13 B Narabang Way 2085 Belrose NSW / AUSTRALIA

Phone +61 2 8977 1058; Mobile +61 (0) 418 899 194

E-mail Mark.Ciechanowicz@schaeffler.com

Manufacturer Schaeffler Technologies AG & Co. KG

Georg-Schäfer-Str. 30

97421 Schweinfurt / GERMANY Phone +49 (0)9721 91 - 0 Homepage www.schaeffler.com

Address enquiries to

Technical informationsupport.is@schaeffler.comSafety Data Sheetsdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2: H319 Causes serious eye irritation.



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2.2 Label elements

The product is required to be labelled in accordance with Model Work

Health and Safety Regulations (WHS) Australia.

Hazard pictograms

(!)

Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice / attention.

2.3 Other hazards

Used grease may contain harmful impurities.

Physico-chemical hazards

Combustible.

Human health dangers

High Pressure Applications. Injections through the skin resulting from contact with the product at high pressure constitute a major medical

emergency.

Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of

knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - 2.9	Dilithium tetraborate
	CAS: 12007-60-2
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302 - Repr. 2: H361d
	SCL [%]: >= 3,8: Repr. 2: H361
1 - 1.49	Naphthenic acids, zinc salts
	CAS: 12001-85-3
	GHS/CLP: Skin Sens. 1B: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411
0 - < 0.09	2,5-bis(octyldithio)-1,3,4-thiadiazole
	CAS: 13539-13-4
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1A: H317 - Acute Tox. 4: H332 - Aquatic Chronic 4: H413

Comment on component parts

A lubricating grease containing highly-refined mineral oils and

additives.

Contains less than 3% w/w DMSO-extract (only for mineral oils) All chemical substances in this material are included on or exempted

from listing on the AICS Inventory.

Substances of Very High Concern - SVHC: substances are not

contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Seek medical advice immediately.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.



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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor. Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of

in accordance within the local regulations.

Hazchem Code not applicable

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

Forms slippery surfaces with water.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Prevent spread over a wide area (e.g. by containment or oil barriers).



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6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

No special measures necessary if used correctly.

Avoid contact with eyes and skin. Use personal protective equipment.

The product is combustible.

Wash hands before breaks and after work.

Use barrier skin cream.

Cloths contaminated with product should not be kept in trouser

pockets.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep away from frost.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 **Control parameters**

Ingredients with occupational exposure limits to be monitored (AU)

not applicable

DNEL

	Substance
	Dilithium tetraborate, CAS: 12007-60-2
	Industrial, dermal, Long-term - systemic effects, 333 mg/kg bw/D (AF= 30)
	Industrial, inhalative, Long-term - systemic effects, 7.1 mg/m³ (AF= 12.5)
	general population, oral, Long-term - systemic effects, 0.83 mg/kg bw/D (AF= 60)
	general population, dermal, Long-term - systemic effects, 166 mg/kg bw/D (AF= 60)
_	general population, inhalative, Long-term - systemic effects, 1.74 mg/m³ (AF= 25)

PNEC

Substance
Dilithium tetraborate, CAS: 12007-60-2
sewage treatment plants (STP), mg/L (AF= 10)

8.2 **Exposure controls**

design

Additional advice on system Ensure adequate ventilation on workstation.

General exposure limit for oil mist should be noted.

Eye protection If there is a risk of splashing:

Safety glasses. (EN 166:2001)

The details concerned are recommendations. Please contact the **Hand protection**

glove supplier for further information.

> 0.35 mm Neoprene, >240 min (EN 374-1/-2/-3). > 0.35 mm Nitrile rubber, >240 min (EN 374-1/-2/-3).

PVC > 0.35 mm, >240 min (EN 374-1/-2/-3).

Skin protection not applicable

Avoid contact with eyes and skin. Other

Breathing apparatus in the event of aerosol or mist formation. Respiratory protection

Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)

Thermal hazards not applicable

Delimitation and monitoring

of the environmental

exposition

Comply with applicable environmental regulations limiting discharge

to air, water and soil.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state pasty
Color red

Odor characteristic
Odour threshold not applicable
pH-value not applicable
pH-value [1%] not applicable

Boiling point [°C] No information available.

Flash point [°C] > 200 / 392°F

Flammability (solid, gas) [°C] No information available.

Lower explosion limit ca. 1 Vol.% Upper explosion limit ca. 10 Vol.%

Oxidising properties no

Vapour pressure/gas < 0.0005 (20°C / 68°F)

pressure [kPa]

Density [g/cm³] 1.0 (DIN 51757) (15 °C / 59,0 °F) Relative density 1.0 (DIN 51757)(15 °C / 59 °F)

Bulk density [kg/m³] not applicable

Solubility in water virtually insoluble

Solubility other solvents No information available.

Partition coefficient [n-

octanol/water]

> 6

Kinematic viscosity not applicable

Relative vapour density > 1

Evaporation speed not applicable Melting point [°C] > 240 / 464°F Auto-ignition temperature > 320 / 608°F

Decomposition temperature No information available.

[°C]

Particle characteristics No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.



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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

If product is heated above decomposition temperature toxic vapours may be released.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information	
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11.1 Information on toxicological effects

Acute oral toxicity

Product
LD50, oral, Rat, > 5000 mg/kg bw
Substance
Dilithium tetraborate, CAS: 12007-60-2
LD50, oral, Rat, 300 - 2000 mg/kg bw
Naphthenic acids, zinc salts, CAS: 12001-85-3

Acute dermal toxicity

Product
LD50, dermal, Rabbit, > 5000 mg/kg bw

Substance
Dilithium tetraborate, CAS: 12007-60-2
LD50, dermal, Rat, > 2000 mg/kg bw

Acute inhalational toxicity

Serious eye damage/irritation

Toxicological data of complete product are not available.

Irritant

LD50, oral, Rat, >2000 mg/kg bw (OECD 423)

Calculation method

Substance
Dilithium tetraborate, CAS: 12007-60-2
Causes serious eye damage.
Naphthenic acids, zinc salts, CAS: 12001-85-3
IVIS, cutan, Human, 19 (OECD 492)

Skin corrosion/irritation Slight irritant effect.

Based on the available information, the classification criteria are not

fulfilled.

Substance
Dilithium tetraborate, CAS: 12007-60-2
no adverse effect observed
Naphthenic acids, zinc salts, CAS: 12001-85-3
no adverse effect observed



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Respiratory or skin sensitisation

Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin

sensitisation.

No classification due to toxicological investigations.

Substance
Dilithium tetraborate, CAS: 12007-60-2
non-sensitizing
Naphthenic acids, zinc salts, CAS: 12001-85-3
IC50, cutan, Cell culture, ≥82 μg/mL (OECD 442D

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not

fulfilled.

Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not

fulfilled.

Mutagenicity No mutagenous properties.

Based on the available information, the classification criteria are not

fulfilled.

Substance
Naphthenic acids, zinc salts, CAS: 12001-85-3
in vitro, negativ

Reproduction toxicity Toxicological data of complete product are not available.

SCL: > 7.6% Rep. 2 (CAS 12006-96-1/12007-60-2)

No classification due to substance-specific concentration limits.

Substance
Dilithium tetraborate, CAS: 12007-60-2
NOAEL, oral, Rat, 50 mg/kg bw/d (Effect on developmental toxicity)
NOAEL, oral, Rat, 150 mg/kg bw/d (Effect on fertility), no adverse effect observed

Carcinogenicity No cancerogenic properties known

Based on the available information, the classification criteria are not

fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not

fulfilled.

General remarks



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Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

Remarks: Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far as possible.

SECTION 12: Ecological information

12.1 Toxicity

Product
LL50, Algae, > 100 mg/L
LL50, Daphnia magna, > 100 mg/L
LL50, fish, > 100 mg/L

Substance
Dilithium tetraborate, CAS: 12007-60-2
LC50, (96h), fish, 100 mg/L
EC50, (48h), Daphnia magna, 100 mg/L
IC50, (72h), Algae, 100 mg/L
NOEC, (72h), Algae, 32 mg/L
Naphthenic acids, zinc salts, CAS: 12001-85-3
EL50, (72h), Pseudokirchneriella subcapitata, 4 mg/L (OECD 201)
EL50, (48h), Daphnia magna, 35 mg/L (OECD 202)
LL50, (96h), Cyprinus carpio, >100 mg/L (OECD 203)

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined

Biological degradability The product is not readily biodegradable.

12.3 Bioaccumulative potential

Contains components with the potential to bioaccumulate.

12.4 Mobility in soil

Product is immobilized by adsorption to soil particles.



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Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

The product is insoluble in water.

Product will float on water.

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

Restrictions There are no product-specific restrictions. However, state and local

disposal regulations may apply.

Note that state and local disposal regulations may differ from federal

disposal regulations.

Disposal of this product must comply with the requirements of state **Disposal method**

and local disposal regulations.

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle

container, otherwise send to landfill or similar.

SECTION 14: Transport information

14.1 UN number

Transport by land according not applicable

to ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance not applicable

with IATA

Australian Code for the

not applicable

Transport of Dangerous Goods by Road & Rail (ADG)



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14.2 UN proper shipping name

Transport by land according NO DANGEROUS GOODS to ADR/RID

NO DANGEROUS GOODS Inland navigation (ADN)

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance NOT CLASSIFIED AS "DANGEROUS GOODS"

with IATA

Australian Code for the not applicable **Transport of Dangerous** Goods by Road & Rail (ADG)

14.3 Transport hazard class(es)

Transport by land according not applicable

to ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance not applicable with IATA

Australian Code for the not applicable **Transport of Dangerous** Goods by Road & Rail (ADG)



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14.4 Packing group

Transport by land according not applicable to ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance not applicable with IATA

Australian Code for the not applicable Transport of Dangerous Goods by Road & Rail (ADG)

14.5 Environmental hazards

Transport by land according no to ADR/RID

Inland navigation (ADN) no

Marine transport in accordance with IMDG

Air transport in accordance no with IATA

Australian Code for the no Transport of Dangerous Goods by Road & Rail (ADG)

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

no

not applicable



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SECTION 15: Regulatory information

Standard for the Uniform **Scheduling of Medicines** and Poisons (SUSMP)

This Standard does not apply to a poison in any of the following

LUBRICANTS in preparations that provide a lubricating action between machinery parts, except soluble oils and solvent-deposited

lubricating agents.

Applicable prohibitions and not applicable notifications/licensing

requirements

Agricultural and Veterinary

Chemicals Act

not applicable

Listing in the Australian Inventory of Chemical Substances (AICS)

All chemical substances in this material are included on or exempted

from listing on the AICS Inventory.

Additional information not applicable



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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical

Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of

Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine

Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)



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Modified position

SECTION 2 deleted: Naphthenic acids, zinc salts

SECTION 3 deleted:

SECTION 3 deleted: Phosphorodithioic acid, mixed O,O-bis(iso-Bu

and pentyl) esters, zinc salts

SECTION 2 deleted: P302+P352 IF ON SKIN: Wash with plenty of

water / soap.

SECTION 2 deleted: P273 Avoid release to the environment.

SECTION 2 deleted:

SECTION 2 deleted: Skin Sens. 1

SECTION 2 deleted: P333+P313 If skin irritation or rash occurs: Get

medical advice / attention.

SECTION 2 deleted: P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

SECTION 2 been added: Frequent persistent contact with the skin

can cause skin irritation.

SECTION 2 been added: Used grease may contain harmful impurities.

SECTION 2 deleted: H317 May cause an allergic skin reaction.

SECTION 3 been added: A lubricating grease containing highly-

refined mineral oils and additives.

SECTION 7 been added: Avoid contact with eyes and skin. Use

personal protective equipment.

SECTION 7 been added: Take off contaminated clothing and wash

before reuse.

SECTION 11 been added: Remarks: Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided

as far as possible.

SECTION 11 deleted: Toxicological data of complete product are not

available.

SECTION 11 deleted: May cause an allergic skin reaction.

SECTION 11 deleted: Calculation method

SECTION 11 been added: No classification due to toxicological

investigations.

SECTION 12 been added: Product will float on water.