

Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 1 / 13

Version 01

SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

FAG Arcanol MULTITOP

- 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

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1.4 Emergency phone

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Page 2 / 13

FAG Arcanol MULTITOP

Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Version 01

SECTION 2: Hazards identification

Approval This product has been approved under the Hazardous Substances

and New Organisms Act (HSNO, Approval HSR002606, Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006), and is classified as follows:

Classes / Hazard Statements

9.1C Harmful to aquatic life with long lasting effects.

GHS Symbols none

Other Classifications

There are no other Classifications that are known to apply.

Precautionary statements P273 Avoid release to the environment.

P501 Dispose of contents/container to in accordance with

local/regional/national/international regulation.

SECTION 3: Composition / Information on ingredients

3.1 Product-type:

The product is a mixture.

Range [%] Substance

2,5 - < 10 Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

CAS: 4259-15-8, EINECS/ELINCS: 224-235-5

GHS/CLP: Aquatic Chronic 2 - H411

EEC: N, R 51/53

Comment on component

parts

Substances of Very High Concern - SVHC: substances are not

contained or are below 0,1%.

For the wording of the listed risk phrases refer to SECTION 16.



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012 Page 3 / 13

Version 01

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 for medical treatment.

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

Consult a doctor if skin irritation persists.

In case of contact with eyes rinse thoroughly with water.

In the event of symptoms seek for medical treatment.

Ingestion Seek medical advice immediately.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Headache Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Eye contact

Suitable extinguishing media 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

Unknown risk of formation of toxic pyrolysis products.

Carbon monoxide (CO) Nitrogen oxides (NOx).

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.



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 4 / 13

Version 01

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

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.

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.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (NZ)

not applicable



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 5 / 13

Version 01

8.2 **Exposure controls**

Additional advice on system Ensure adequate ventilation on workstation.

design

Safety glasses. Eye protection

Butyl rubber, >120 min (EN 374). Hand protection

The details concerned are recommendations. Please contact the

glove supplier for further information.

Skin protection not applicable

Other Avoid contact with eyes and skin.

Wash hands before breaks and after work.

Use barrier skin cream.

not applicable Respiratory protection not applicable Thermal hazards

Delimitation and monitoring See SECTION 6+7.

of the environmental

exposition



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012 Page 6 / 13

Version 01

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form pasty dark brown Color characteristic Odor **Odour threshold** not applicable not applicable pH-value not applicable pH-value [1%]

> 300 **Boiling point [°C]**

> 200 (DIN EN ISO 2592) Flash point [°C]

> 300 Flammability [°C] ~ 0,6 Vol.% Lower explosion limit ~ 6,5 Vol.% **Upper explosion limit**

Oxidizing properties

< 0,01 (20°C) Vapour pressure/gas

pressure [kPa]

Density [g/ml] ~ 0,87 (DIN 51757) Bulk density [kg/m³] not applicable Solubility in water virtually insoluble

Partition coefficient [n-

octanol/water]

not determined

Viscosity Relative vapour density not applicable

determined in air

not applicable

not applicable **Evaporation speed**

> 190 (DIN ISO 2176) Melting point [°C]

Autoignition temperature

[°C]

> 300

Decomposition temperature > 200

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Version 01

Page 7 / 13

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

See SECTION 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012 Page 8 / 13

Version 01

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance	
2,5 - < 10 Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8		
	LD50, oral, Rat: 3100 mg/kg (IUCLID).	
	LD50, dermal, Rabbit: > 5000 mg/kg (IUCLID).	

Serious eye

damage/irritation

not determined

Skin corrosion/irritation

not determined

Respiratory or skin

not determined

sensitisation

Specific target organ

toxicity — single exposure

not determined

Specific target organ

toxicity — repeated

exposure

not determined

Mutagenicitynot determinedReproduction toxicitynot determinedCarcinogenicitynot determined

Carcinogenicity
General remarks

No classification on the basis of the calculation procedure of the

preparation directive.

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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
2,5 - < 10	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	EC50, (48h), Daphnia magna: 1 - 1,5 mg/l (IUCLID).
	LC50, (96h), fish: 1 - 5 mg/l (IUCLID).
	EC50, (96h), Algae: 1 - 5 mg/l (IUCLID).



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 9 / 13

Version 01

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant

Biological degradability

not determined

not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

Restrictions There are no product-specific restrictions, however, local council and

resource consent conditions may apply, including requirements of

trade waste consents.

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

Resource Management Act for which approval should be sought from

the Regional Authority.

The substance must be treated and therefore rendered non-

hazardous before discharge to the environment.

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

See SECTION14.2 in accordance with UN shipping name



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 10 / 13

Version 01

14.2 UN proper shipping name

Transport by land according NO DANGEROUS GOODS to ADR/RID

Inland navigation (ADN) NO DANGEROUS GOODS

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

Air transport in accordance NOT CLASSIFIED AS "DANGEROUS GOODS"

with IATA

14.3 Transport hazard class(es)

See SECTION14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 11 / 13

Version 01

SECTION 15: Regulatory information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002606, Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard)
Group Standard 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

MSDS To be available within 10 minutes in workplaces storing > 50L.

Labelling No removal of labels and/or decanting of product into other containers

can occur.

Emergency plan Required if > 1000L is stored

Approved handler Not required.

Tracking Not required.

Bunding & secondary

containment

Required if > 1000L is stored.

Signage Required if > 1000L is stored.

Location test certificateNot required.Flammable zoneNot required.Fire extinguisherNot required.

Note: The above workplace requirements apply if only this particular

substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances

present in that location.

Other Legislation In New Zealand, the use of this product may come under the

Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional

Council Plans.

SECTION 16: Other informations

16.1 R-phrases (SECTION 03)

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 12 / 13

Version 01

16.2 Hazard statements (SECTION 03)

H411 Toxic to aquatic life with long lasting effects.

16.3 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

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

ELINCS = European List of Notified Chemical Substances

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

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

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



Safety Data Sheet (New Zealand)

Created: 31.07.2012, Revision 14.02.2012

Page 13 / 13

Version 01

16.4 Other informations

Observe employment restrictions for people

no

VOC (1999/13/CE)

0 %

Modified position

SECTION 4 been added: Headache SECTION 4 been added: Irritant effects

SECTION 5 been added: Carbon monoxide (CO) SECTION 5 been added: Nitrogen oxides (NOx).

SECTION 11 been added: 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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12 been added: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12 been added: The product was classified on the basis of the calculation procedure of the preparation directive.