

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Version 14.0. Supersedes version: 13.0	Page 1 / 19
SECTION 1: Identification of the substance/mixture and of the company/undertaking	

1.1 Product identifier

Arcanol MULTI2

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 (UK) Limited
Waleswood Road, Wales Bar
S26 5PN Sheffield / UNITED KINGDOM
Phone +44 19 09 51 05 00
Homepage www.schaeffler.co.uk
E-mail info.uk@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 information

info.uk@schaeffler.com

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body

Call NHS 111 or a doctor
+49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 2 / 19

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

Special labelling EUH210 Safety data sheet available on request.

Contains: Naphthenic acids, zinc salts. EUH208 May produce an allergic reaction.

2.3 Other hazards

Human health dangers The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 3 / 19

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - < 2.5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)
	CAS: 4259-15-8, EINECS/ELINCS: 224-235-5, Reg-No.: 01-2119493635-27-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411
	SCL [%]: >50 - 100: Eye Dam. 1: H318
0 - < 1	Naphthenic acids, zinc salts
	CAS: 12001-85-3, EINECS/ELINCS: 234-409-2, Reg-No.: 01-2120783834-41-XXXX
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411

Comment on component parts

For full text of H-statements: see SECTION 16.
All chemical substances in this material are included on or exempted from listing on the IECSC Inventory.
All chemical substances in this material are included on or exempted from listing on the ENCS Inventory.
Contains less than 3% w/w DMSO-extract (only for mineral oils)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Not required under normal conditions. 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. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 4 / 19

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

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.
Carbon monoxide (CO)
Nitrogen oxides (NO_x).

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.
Cool containers at risk with water spray jet.

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.
Use personal protective equipment.

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

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 5 / 19

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.
Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
Keep away from food and drink.
Cloths contaminated with product should not be kept in trouser pockets.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Version 14.0. Supersedes version: 13.0	Page 6 / 19
SECTION 8: Exposure controls / personal protection	

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
Industrial, inhalative, Long-term - systemic effects, 6,6 mg/m ³
Industrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1,67 mg/m ³
general population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,19 mg/kg bw/day
Naphthenic acids, zinc salts, CAS: 12001-85-3
Industrial, inhalative, Long-term - systemic effects, 1,18 mg/m ³
Industrial, dermal, Long-term - systemic effects, 3,3 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 1,7 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,17 ng/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,29 mg/m ³

PNEC

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
freshwater, 4 µg/L
seawater, 4,6 µg/L
sewage treatment plants (STP), 3,8 mg/l
soil, 0,062 mg/kg soil dw
oral (food), 8,33 mg/kg
sediment (seawater), 0,032 mg/kg dw
sediment (freshwater), 0,322 mg/kg dw
Naphthenic acids, zinc salts, CAS: 12001-85-3
freshwater, 0,004 mg/L
seawater, 0 mg/L
sewage treatment plants (STP), 689,7 µg/L
sediment (freshwater), 0,015 mg/kg dw
sediment (seawater), 0,002 mg/kg dw
soil, 0,001 mg/kg dw

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 7 / 19

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. General exposure limit for oil mist should be noted.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,12 mm; NBR: acrylonitrile butadiene rubber, >480 min (EN 374-1/-2/-3).
Skin protection	light protective clothing
Other	Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 8 / 19

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	beige
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	> 250 (482°F)
Flash point [°C]	> 93 (199,4°F)
Flammability	Combustible Not highly flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	ca. 0,9 (DIN 51757) (20 °C / 68,0 °F)
Relative density	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water [g/L]	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not applicable
Kinematic viscosity	No information available.
Relative vapour density	not relevant
Melting point [°C]	> 180 (356°F)
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	> 200 (392°F)
Particle characteristics	not applicable

9.2 Other information

none

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 9 / 19

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).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

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

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

Strong oxidizing agent.

Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Page 10 / 19
Version 14.0. Supersedes version: 13.0

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product
LD50, oral, Rat, > 5000 mg/kg bw

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
LD50, oral, Rat, 3100 mg/kg bw
Naphthenic acids, zinc salts, CAS: 12001-85-3
LD50, oral, Rat, > 2000 mg/kg

Acute dermal toxicity

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

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
LD50, dermal, Rabbit, > 5000 mg/kg bw

Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.

Serious eye damage/irritation

The undiluted substance CAS 4259-15-8 is an irritant while the 50% formulation in mineral oil was not an irritant.

Based on the available information, the classification criteria are not fulfilled.

No classification due to substance-specific concentration limits.

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
Eye, adverse effect observed
Naphthenic acids, zinc salts, CAS: 12001-85-3
Eye, irritant

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
dermal, non-irritating

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Page 11 / 19
 Version 14.0. Supersedes version: 13.0

	Naphthenic acids, zinc salts, CAS: 12001-85-3
	dermal, no adverse effect observed

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

	Substance
	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	dermal, non-sensitizing
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	dermal, sensitising

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.

	Substance
	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	NOAEL, oral, Rat, 125 mg/kg bw/day, no adverse effect observed
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	NOAEL, oral, Rat, 89,7 mg/kg bw/day

Mutagenicity 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 Based on the available information, the classification criteria are not fulfilled.

- Fertility

	Substance
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	NOAEL, oral, Rat, 137,9 mg/kg bw/day, no adverse effect observed

- Development

	Substance
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	NOAEL, oral, Rat, 344,8 mg/kg bw/day, no adverse effect observed

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Version 14.0. Supersedes version: 13.0	Page 12 / 19
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Carcinogenicity 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

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

	Product
	LL0, Fish, 10 - 100 mg/l

	Substance
	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	EL50, (48h), Daphnia magna, 75 mg/l (OECD 202)
	EL50, (72h), Desmodesmus subspicatus, 240 mg/L
	NOEC, (21d), Daphnia magna, 0,4 mg/l (OECD 211)
	LL50, (96h), Rainbow trout, 4,4 mg/l
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	EC50, (72h), Algae, 4 mg/L
	EL50, (48h), Daphnia magna, 35 mg/L
	LL50, (96h), Fish, 100 mg/L

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 13 / 19

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant The product floats on the (waste) water.
Can be separated out mechanically in purification plants.

Biological degradability CAS 4259-15-8: < 5%, 27d

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

The product is insoluble in water.

12.5 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

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

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

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Version 14.0. Supersedes version: 13.0	Page 14 / 19
SECTION 13: Disposal considerations	

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.

In according to RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 120112* spent waxes and fats

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Uncontaminated packaging may be reused.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances
150102
150104

SECTION 14: Transport information
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14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 15 / 19

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

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

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 16 / 19

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025 Version 14.0. Supersedes version: 13.0	Page 17 / 19
--	--------------

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions.
75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.

TRANSPORT-NATIONAL REGULATIONS (UK): ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025) EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people no

- VOC (2010/75/CE) < 3 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.
H318 Causes serious eye damage.

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 18 / 19

16.2 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
IVIS = In vitro irritation score
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

16.3 Other information

Arcanol MULTI2

Safety Data Sheet (UK REACH) (UK)

Date printed 07.08.2025, Revision 23.04.2025
Version 14.0. Supersedes version: 13.0

Page 19 / 19

Modified position

8.1, 11.1