

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 1 / 15

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

1.1 Product identifier

Lithofin ASR

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

Mixture Washing and cleaning products, alkaline

1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

Distributor : CDK Stone Pty Ltd
Street : 4-6 Freighter Rd
Postal code/city : AUS-Moorabbin, Victoria 3189
Telephone : +61 3 8552-6000
Telefax : +61 3 8552-6001
Contact : Technical Department
E-mail:

Emergency telephone number:
+61 (0)3 8552-6000
(Only available during office hours)

Supplier : Lithofin AG
Street : Heinrich-Otto-Str. 36
Postal code/city : 73240 Wendlingen
Telephone : +49 (0)7024 9403-0
Telefax : +49 (0)7024 9403-40

1.4 Emergency telephone number

see section 1.3

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.
Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

Additional information

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Remark

Full text of H- and EUH-phrases: see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

SODIUM HYDROXIDE ; CAS No. : 1310-73-2

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 2 / 15

P102	Keep out of reach of children.
P234	Keep only in original container.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.

2.3 Other hazards

Adverse human health effects and symptoms

Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out.

2.4 Additional information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

SODIUM HYDROXIDE ; REACH registration No. : 01-2119457892-27-xxxx ; EC No. : 215-185-5; CAS No. : 1310-73-2

Weight fraction : $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36-xxxx ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

PROPAN-2-OL ; REACH registration No. : 01-2119457558-25-xxxx ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

TRISODIUM NITRILOTRIACETATE ; REACH registration No. : 01-2119519239-36-xxxx ; EC No. : 225-768-6; CAS No. : 5064-31-3

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Carc. 2 ; H351 Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; REACH registration No. : 01-2119489418-23-xxxx ; EC No. : 600-975-8; CAS No. : 110615-47-9

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315

potassium cumenesulphonate ; REACH registration No. : 01-2119489427-24-xxxx ; EC No. : 629-764-9; CAS No. : 164524-02-1

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Sodium cumenesulfonate ; REACH registration No. : 01-2119489411-37-xxxx ; EC No. : 239-854-6; CAS No. : 15763-76-5

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Alcohols, C12-15, branched and linear, ethoxylated and propoxylated ; CAS No. : 120313-48-6

Weight fraction : $\geq 0,5 - < 1 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400

Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. In case of respiratory tract irritation, consult a physician.

Trade name : Lithofin ASR

Revision date : 18.01.2016

Version : 1.0.0

Print date : 02.02.2016

Page : 3 / 15

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

After ingestion

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water alcohol resistant foam ABC-powder Carbon dioxide (CO₂) Water spray

Unsuitable extinguishing media

Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide. Carbon dioxide (CO₂)

5.3 Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Coordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Suitable material for taking up: Universal binder

6.4 Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Measures to prevent fire

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 4 / 15

The product is not: Flammable Usual measures for fire prevention.

Fire class : -
Shake before use nein

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container.

Hints on joint storage

Storage class (TRGS 510) : 8A

Protect from frost nein

Recommended storage temperature 5 - 25 °C

Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

Recommendation

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 98 mg/m³
Peak limitation : 4(II)
Remark : H,Y
Version : 02.04.2014

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts
Limit value : 100 mg/l
Version : 31.03.2004

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 246 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 98 mg/m³
Remark : H
Version : 08.06.2000

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 200 ppm / 500 mg/m³
Peak limitation : 2(II)
Remark : Y
Version : 02.04.2014

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift
Limit value : 50 mg/l
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Urine (U) / End of exposure or end of shift
Limit value : 50 mg/l
Version : 31.03.2004

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 1 mg/m³
Limit value type : DNEL Consumer (local) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 5 / 15

Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	123 mg/kg
Limit value type :	DNEL Consumer (systemic) (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	3,8 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	3,8 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	38 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	49 mg/m ³
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	3,2 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	3,8 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	13,2 mg/m ³
Limit value type :	DNEL Consumer (systemic) (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1,75 mg/m ³
Limit value type :	DNEL Consumer (systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	319 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	89 mg/m ³
Limit value type :	DNEL Consumer (systemic) (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	0,5 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	13,2 mg/m ³
Limit value type :	DNEL Consumer (systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	26 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	44,5 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 6 / 15

Limit value : 426 mg/m³
Limit value type : DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Oral
Exposure frequency : Short-term (acute)
Limit value : 13,4 mg/kg/d
Limit value type : DNEL worker (local) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 246 mg/m³
Limit value type : DNEL worker (local) (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 1 mg/m³
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 89 mg/kg/d
Limit value type : DNEL worker (systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 888 mg/kg/d
Limit value type : DNEL worker (systemic) (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 5,25 mg/m³
Limit value type : DNEL worker (systemic) (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 3,5 mg/m³
Limit value type : DNEL worker (systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 500 mg/m³
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 663 mg/m³
Limit value type : DNEL worker (systemic) (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 7,6 mg/kg/d
Limit value type : DNEL worker (systemic) (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 7,6 mg/kg/d
Limit value type : DNEL worker (systemic) (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 53,6 mg/m³
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 75 mg/kg/d
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 98 mg/m³
Limit value type : DNEL worker (systemic) (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 53,6 mg/m³
PNEC
Limit value type : PNEC aquatic, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value : 8,8 mg/l

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 7 / 15

Limit value type :	PNEC aquatic, freshwater (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Limit value :	0,93 mg/l
Limit value type :	PNEC aquatic, freshwater (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, freshwater (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Limit value :	0,23 mg/l
Limit value type :	PNEC aquatic, freshwater (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Limit value :	0,23 mg/l
Limit value type :	PNEC aquatic, intermittent release (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, intermittent release (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Limit value :	0,915 mg/l
Limit value type :	PNEC aquatic, marine water (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Limit value :	0,093 mg/l
Limit value type :	PNEC aquatic, marine water (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	0,88 mg/l
Limit value type :	PNEC aquatic, marine water (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	140,9 mg/l
Limit value type :	PNEC sediment, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	34,6 mg/kg
Limit value type :	PNEC sediment, freshwater (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Limit value :	3,64 mg/kg
Limit value type :	PNEC sediment, freshwater (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	552 mg/kg
Limit value type :	PNEC sediment, marine water (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	3,46 mg/kg
Limit value type :	PNEC sediment, marine water (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Limit value :	0,364 mg/kg
Limit value type :	PNEC sediment, marine water (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	552 mg/kg
Limit value type :	PNEC Secondary Poisoning (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	160 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	463 mg/l
Limit value type :	PNEC sewage treatment plant (STP) (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Limit value :	540 mg/l
Limit value type :	PNEC sewage treatment plant (STP) (PROPAN-2-OL ; CAS No. : 67-63-0)
Limit value :	2251 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection goggles

Required properties

DIN EN 166

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : Data apply to the main component. Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

Recommended glove articles : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

Additional hand protection measures : Check leak tightness/impermeability prior to use.

Remark : Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016

Version : 1.0.0

Print date : 02.02.2016

Page : 8 / 15

Protective clothing.

Suitable protective clothing : Chemical protection clothing Chemical resistant safety shoes

Required properties : alkali-resistant.

Recommended protective clothing articles : DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 DIN EN 14404

Remark : Barrier creams are not substitutes for body protection.

Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General health and safety measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Odour : unspecific

Safety relevant basis data

Freezing point :	(1013 hPa)	<	-18	°C	
Initial boiling point and boiling range :	(1013 hPa)	ca.	95	°C	
Decomposition temperature :	(1013 hPa)		not determined		
Flash point :		ca.	57	°C	closed cup
Ignition temperature :			not determined		
Sustaining combustion			No		UN Test L2:Sustained combustibility test
Lower explosion limit :			not determined		
Upper explosion limit :			not determined		
Vapour pressure :	(50 °C)	<	3000	hPa	
Density :	(20 °C)	ca.	1,1	g/cm ³	Pyknometer
Solvent separation test :	(20 °C)	<	3	%	
Water solubility	(20 °C)		miscible		
pH :		ca.	14		
log P O/W :			not determined		
Flow time :	(23 °C)	ca.	14	s	ISO cup 4 mm
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC-FR			not applicable		

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

10.5 Incompatible materials

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 9 / 15

The product develops hydrogen in an aqueous solution in contact with metals.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	1746 mg/kg
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	5840 mg/kg
Method :	OECD 401
Parameter :	LD50 (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	3900 mg/kg
Parameter :	LD50 (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401
Parameter :	LD50 (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (Alcohols, C12-15, branched and linear, ethoxylated and propoxylated ; CAS No. : 120313-48-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (D-Glucopyranose, oligomeric, C8-10-alkyl glycosides ; CAS No. : 68515-73-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Species :	Guinea pig
Effective dose :	> 2000 mg/l
Method :	OECD 402
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	13900 mg/kg
Method :	OECD 402
Parameter :	LD50 (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 10000 mg/kg
Parameter :	LD50 (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 10 / 15

Parameter : LD50 (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Parameter : LD50 (Alcohols, C12-15, branched and linear, ethoxylated and propoxylated ; CAS No. : 120313-48-6)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (D-Glucopyranose, oligomeric, C8-10-alkyl glycosides ; CAS No. : 68515-73-1)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Inhalation
Species : Rat
Effective dose : > 25 mg/l
Exposure time : 6 h
Method : OECD 403
Parameter : LC50 (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Exposure route : Inhalation
Species : Rat
Effective dose : > 10 mg/l

Specific symptoms in animal studies

No data available

Irritant and corrosive effects

Assessment/classification

Causes serious eye damage. Causes severe burns.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity

In vivo mutagenicity

Other information

No experimental indications of in vivo mutagenicity exist.

Human toxicological data

Other information

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

Practical experience/human evidence

No indications of human reproductive toxicity exist.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Fish
Effective dose : 125 mg/l
Exposure time : 96 h
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Fish
Effective dose : 1474 mg/l
Exposure time : 96 h
Method : OECD 203

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 11 / 15

Parameter : LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Fish
Effective dose : 9640 mg/l
Exposure time : 96 h
Parameter : LC50 (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Species : Fish
Effective dose : > 100 mg/l
Exposure time : 96 h
Parameter : LC50 (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Species : Fish
Effective dose : > 1 - 10 mg/l
Method : OECD 203
Parameter : LC50 (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Species : Fish
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Species : Fish
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (Alcohols, C12-15, branched and linear, ethoxylated and propoxylated ; CAS No. : 120313-48-6)
Species : Fish
Effective dose : > 0,1 - 1 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (D-Glucopyranose, oligomeric, C8-10-alkyl glycosides ; CAS No. : 68515-73-1)
Species : Fish
Effective dose : > 100 mg/l
Method : OECD 203

Chronic (long-term) fish toxicity

Parameter : NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Fish
Effective dose : > 100 mg/l
Exposure time : 21 Tage
Parameter : NOEC (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Species : Fish
Effective dose : > 1 mg/l
Method : OECD 204

Acute (short-term) daphnia toxicity

Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia
Effective dose : 1550 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Daphnia
Effective dose : 9714 mg/l
Exposure time : 24 h
Parameter : EC50 (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Species : Daphnia
Effective dose : > 10 - 100 mg/l
Parameter : EC50 (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Species : Daphnia
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Species : Daphnia

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 12 / 15

Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (Alcohols, C12-15, branched and linear, ethoxylated and propoxylated ; CAS No. : 120313-48-6)
Species : Daphnia
Effective dose : > 1 - 10 mg/l
Exposure time : 48 h
Parameter : EC50 (D-Glucopyranose, oligomeric, C8-10-alkyl glycosides ; CAS No. : 68515-73-1)
Species : Daphnia
Effective dose : > 100 mg/l

Chronic (long-term) daphnia toxicity

Parameter : NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia
Effective dose : 100 mg/l
Exposure time : 21 Tage
Method : OECD 211
Parameter : NOEC (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Species : Daphnia
Effective dose : > 1 mg/l

Acute (short-term) algae toxicity

Parameter : IC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Algae
Effective dose : 1840 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : IC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Algae
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : IC50 (TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3)
Species : Algae
Effective dose : > 91,5 mg/l
Exposure time : 72 h
Parameter : IC50 (D-Glucopyranose, oligomeric, C10-16-alkyl glycosides ; CAS No. : 110615-47-9)
Species : Algae
Effective dose : > 10 - 100 mg/l
Method : OECD 201
Parameter : IC50 (potassium cumenesulphonate ; CAS No. : 164524-02-1)
Species : Algae
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : IC50 (Sodium cumenesulfonate ; CAS No. : 15763-76-5)
Species : Algae
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : IC50 (Alcohols, C12-15, branched and linear, ethoxylated and propoxylated ; CAS No. : 120313-48-6)
Species : Algae
Effective dose : > 0,1 - 1 mg/l
Exposure time : 72 h
Method : OECD 201

Bacteria toxicity

Parameter : EC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Bacteria toxicity
Effective dose : 22 mg/l
Exposure time : 15 min

Effects in sewage plants

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 13 / 15

12.2 Persistence and degradability

No data available

Biodegradation

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available

12.7 Additional ecotoxicological information

Additional information

The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (91/689/EEC) : 06 02 04*

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

UN 1719

14.2 UN proper shipping name

Land transport (ADR/RID)

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C5
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 11 · E 2
Hazard label(s) : 8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 11 · E 2 · Segregation Group 18 - Alkalis

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin ASR

Revision date : 18.01.2016
Print date : 02.02.2016

Version : 1.0.0
Page : 14 / 15

Hazard label(s) : 8
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 8
Special provisions : E 2
Hazard label(s) : 8

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Regulation (EC) No. 648/2004 (Detergents regulation)

National regulations

Observe in addition any national regulations!

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

VOCV-Regulation (CH)

Maximum VOC content (Switzerland) : 6,5 Wt % according to VOCV

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.

16.6 Training advice

None

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : **Lithofin ASR**

Revision date : 18.01.2016

Version : 1.0.0

Print date : 02.02.2016

Page : 15 / 15

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
