

**SAFETY DATA SHEET****A-7L**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 20.06.2012

Revision date 17.03.2023

1.1. Product identifier

Product name A-7L

Synonyms 421508

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

Product group Liquid

Use of the substance / mixture Cement, accelerator.

1.3. Details of the supplier of the safety data sheet**Supplier**

Company name Baker Hughes Norge AS

Office address Kontinentalvegen 8

Postal address Kontinentalvegen 8

Postcode 4056

City TANANGER

Country Norway

Telephone number +47 51 71 75 00

Fax +47 51 71 75 01

Email BHNorwayHS&ETeam@bakerhughes.com

Website www.bakerhughes.com

1.4. Emergency telephone number

Emergency telephone Telephone number: +47 21 93 06 78
Description: CHEMTREC Nødtelefonnummer (NO)

Telephone number: +47 22 59 13 00

Description: Giftinformasjonen

Telephone number: +47 51 69 46 24

Description: Beredskapstelefon

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Irrit. 2; H319

Substance / mixture hazardous
properties

Causes serious eye irritation.

2.2. Label elements

Hazard pictograms (CLP)



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Benytt vernebriller/ansiktsskjerm.
P264 Wash hendene thoroughly after handling.
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

PBT / vPvB

The chemical contains no PBT or vPvB substances.

Other hazards

None of the substances listed in section 3.2 is listed on ECHA's Endocrine
disruptor assessment list.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Calcium chloride	CAS No.: 10043-52-4 EC No.: 233-140-8 Index No.: 017-013-00-2	Eye Irrit. 2; H319	≥ 25 < 50 %	

Substance comments

See section 16 for explanation of hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 113.
Inhalation	Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. Get medical attention if any discomfort continues.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove any contact lenses. Hold the eyelids apart. Contact physician if irritation persists.
Ingestion	Rinse mouth with water. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention.
Recommended personal protective equipment for first aid responders	It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Eye contact: Causes serious eye irritation. Symptoms of irritation may be redness and pain. Ingestion: Irritates the mouth, esophagus and digestive tract.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish surrounding fires with suitable extinguisher.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable. Containers can burst violently when heated, due to excess pressure build-up.
Hazardous combustion products	May include, but is not limited to: Metal oxides. Halogenated compounds.

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Provide adequate ventilation. Use protective equipment as referred to in section 8. Avoid contact with eyes.
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6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
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6.3. Methods and material for containment and cleaning up

Clean up	Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13.
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6.4. Reference to other sections

Other instructions	See also sections 7, 8 and 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Use protective equipment as referred to in section 8. Avoid contact with skin and eyes. Avoid inhalation of vapours.
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Protective safety measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep upright.
Conditions to avoid	Protect from sunlight.

Conditions for safe storage

Packaging compatibilities	Store in original container.
Advice on storage compatibility	Keep away from: Food and feed.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments	Contains no substances with occupational exposure limit values. References (laws/regulations): Norwegian regulation on exposure limits:
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FOR-2011-12-06-1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2022-12-19-2350).

DNEL / PNEC

DNEL

Group: Consumer
Route of exposure: Long-term inhalation (local)
Value: 2,5 mg/m³
Comments: Applies to CAS-nr.: 10043-52-4.

Group: Consumer
Route of exposure: Acute inhalation (systemic)
Value: 2,5 mg/m³
Comments: Applies to CAS-nr.: 10043-52-4.

Group: Consumer
Route of exposure: Acute inhalation (local)
Value: 5 mg/m³
Comments: Applies to CAS-nr.: 10043-52-4.

Group: Professional
Route of exposure: Long-term inhalation (local)
Value: 5 mg/m³
Comments: Applies to CAS-nr.: 10043-52-4.

Group: Professional
Route of exposure: Long-term inhalation (systemic)
Value: 5 mg/m³
Comments: Applies to CAS-nr.: 10043-52-4.

Group: Professional
Route of exposure: Acute inhalation (local)
Value: 10 mg/m³
Comments: Applies to CAS-nr.: 10043-52-4.

8.2. Exposure controls

Precautionary measures to prevent exposure

Instruction on measures to prevent exposure

Reference is made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Technical measures to prevent exposure

Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.

A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment

Description: Wear tight-fitting goggles or face shield.
Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).

Additional eye protection measures

Eye wash facilities shall be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable materials

Nitrile.

Breakthrough time

Value: > 8 hour(s)

Thickness of glove material

Comments: No specific information from the manufacturer.

Hand protection equipment

Description: Use protective gloves that are suitable for the application. The recommended material of gloves is recommended after a study of the single components in the chemical. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves - General requirements and test methods).

Additional hand protection measures

Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands.

Skin protection

Recommended protective clothing

Description: Wear appropriate protective clothing to protect against possible skin contact.

Additional skin protection measures

Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection

Description: Normally not required.
In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type B2/P2).
Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).

Appropriate environmental exposure control

Environmental exposure controls

Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid.

Colour

Clear Colourless to pale yellow.

Odour

Odourless.

Odour limit

Comments: Not relevant.

pH

Status: In aqueous solution
Value: 9 - 10

Melting point / melting range	Value: -28 °C
Boiling point / boiling range	Value: 110 - 122 °C
Flash point	Comments: Not relevant.
Flammability	Non flammable.
Explosion limit	Comments: Not determined.
Vapour pressure	Value: 0,93 - 2 kPa
Vapour density	Comments: Not determined.
Particle characteristics	Comments: Not relevant for liquids.
Relative density	Value: 1,29 - 1,44 Temperature: 25 °C
Density	Comments: Not specified by the manufacturer.
Solubility	Medium: Water Comments: Easily soluble.
Partition coefficient: n-octanol/ water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Comments: Not determined.
Decomposition temperature	Comments: Not determined.
Viscosity	Value: 2,6 cSt Temperature: 25 °C Type: Kinematic
Explosive properties	Not determined.
Oxidising properties	Not determined.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties No further information is available.

9.2.2. Other safety characteristics

Comments No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No data available.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous polymerization will not occur under normal conditions.

10.4. Conditions to avoid

Conditions to avoid

Protect from direct sunlight.

10.5. Incompatible materials

Materials to avoid

None expected.

10.6. Hazardous decomposition products

Hazardous decomposition products

None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

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

Acute toxicity

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Oral

Value: 1 g/kg

Species: Rat

Test reference: CAS-nr.: 10043-52-4

Other information regarding health hazards

Assessment of acute toxicity, classification

Based on available data, the classification criteria are not met.

Assessment of skin corrosion / irritation, classification

Based on available data, the classification criteria are not met.

Assessment of eye damage or irritation, classification

Causes serious eye irritation.

Assessment of respiratory sensitisation, classification

Based on available data, the classification criteria are not met.

Assessment of skin sensitisation, classification

Based on available data, the classification criteria are not met.

Assessment of germ cell mutagenicity, classification

Based on available data, the classification criteria are not met.

Assessment of carcinogenicity, classification

Based on available data, the classification criteria are not met.

Assessment of reproductive toxicity, classification

Based on available data, the classification criteria are not met.

Assessment of specific target organ toxicity - single exposure, classification

Based on available data, the classification criteria are not met.

Assessment of specific target organ toxicity - repeated exposure, classification

Based on available data, the classification criteria are not met.

Assessment of aspiration hazard, classification

Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	Irritates the mouth, throat and digestive system.
In case of skin contact	No specific information from the manufacturer.
In case of inhalation	No specific information from the manufacturer.
In case of eye contact	Causes serious eye irritation. Symptoms of irritation may be redness and pain.

11.2 Other information

Endocrine disruption	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.
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SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Acute Value: 2110 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Pimephales promelas Comments: Applies to CAS-nr.: 10043-52-4.
Aquatic toxicity, algae	Toxicity type: Acute Value: 3130 mg/l Effect dose concentration: EC50 Test duration: 96 hour(s) Species: Navicula sp. Comments: Applies to CAS-nr.: 10043-52-4.
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 52000 µg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Comments: Applies to CAS-nr.: 10043-52-4. Toxicity type: Acute Value: 270 mg/l Effect dose concentration: LC50 Test duration: 48 hour(s) Species: Americamysis bahia Test reference: Saltvann Comments: Applies to CAS-nr.: 10043-52-4.
Ecotoxicity	The chemical is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills may be potentially hazardous.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	There are no data available on the chemical itself.
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation

Information on bioaccumulation is not available for the chemical.

12.4. Mobility in soil

Mobility

Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The chemical contains no PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties

None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

12.7. Other adverse effects

Additional ecological information

Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical

Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.

EWC waste code

EWC waste code: 060205 other bases
Classified as hazardous waste: Yes

EWC waste code: 160507 discarded inorganic chemicals consisting of or containing dangerous substances
Classified as hazardous waste: Yes

NORSAS

7097 Inorganic solutions and liquids.

Other information

Do not empty into drains.

SECTION 14: Transport information

Dangerous goods

No

14.1. UN number

Comments

Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments

Not relevant.

14.3. Transport hazard class(es)

Comments

Not relevant.

14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

Comments	Not relevant.
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14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
Ship type required	Data lacking.

SECTION 15: Regulatory information

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

References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments. Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap. Norwegian regulation on declaration: FOR-2015-05-19-541, 01.06.2015 with later amendments.
Declaration No.	70533

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	H319 Causes serious eye irritation.
CLP classification, comments	Calculation method.
Key literature references and sources for data	Suppliers Safety data sheet dated: 18.08.2020.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road EWC: European Waste Code (a code from the EU's common classification system for waste)

	EC50: The effective concentration of substance that causes 50% of the maximum response IATA: The International Air Transport Association IMDG: The International Maritime Dangerous Goods Code IMO: International Maritime Organization LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. PBT: Persistent, Bioaccumulative and Toxic RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail UN: United Nations vPvB: very Persistent and very Bioaccumulative
Information added, deleted or revised	Sections being revised since previous version: 1-2, 4-12, 15-16
Checking quality of information	This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	5
Prepared by	Kiwa Kompetanse, Norway by SR