

**SAFETY DATA SHEET****ASA-304L**

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	18.12.2017
Revision date	16.10.2023

1.1. Product identifier

Product name	ASA-304L
Synonyms	222669

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

Product group	Liquid
Use of the substance / mixture	Cement additive.

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)
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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]

Asp. Tox. 1; H304

Substance / mixture hazardous
properties

May be fatal if swallowed and enters airways.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label

Hydrocarbons, C14-C17, n-alkanes, <2% aromat, Hydrocarbons, C10-C14, n-alkanes, isoalkanes <2% aromat

Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents / container to an approved waste facility.

Supplemental label information

EUH 066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

PBT / vPvB

The chemical contains no PBT or vPvB substances.

Health effect

Degreasing to skin.

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
Hydrocarbons, C14-C17, n-alkanes, <2% aromat	CAS No.: 185857-35-6 EC No.: 917-828-1 REACH Reg. No.: 01-2119487513-33	Asp. Tox. 1; H304 EUH 066	≥ 50 ≤ 75 %	

Hydrocarbons, C10-C14, n-alkans, isoalkans <2% aromat	CAS No.: 64771-72-8 EC No.: 701-280-3 REACH Reg. No.: 01-2119458951-30	Asp. Tox. 1; H304 EUH 066	$\geq 10 \leq 25 \%$
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 fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Flush skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. By prolonged rinsing, use luke warm water to avoid damage to the eye. Contact physician if discomfort continues.
Ingestion	Rinse mouth thoroughly. Drink small amounts of water. Do not induce vomiting. Immediately consult a doctor. Never give liquid to an unconscious person. Risk of aspiration and chemical pneumonia. In case of spontaneous vomiting, the head must be kept low to avoid that the stomach contents may enter the lungs.

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

General symptoms and effects	Risk of chemical pneumonia (pneumonitis) if aspirated during and after ingestion.
Acute symptoms and effects	Inhalation: Solvent vapours are hazardous and may cause nausea, sickness and headaches. Skin contact: Prolonged and repeated skin contact will cause defatting and possible irritation. Ingestion: May cause nausea and vomiting. If, by vomiting, the chemical reaches the lungs, life-threatening chemical pneumonia may develop.

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	Use fire-extinguishing media appropriate for surrounding materials.
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. Closed containers can burst violently when heated, due to excess pressure build-up.
Hazardous combustion products	May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO ₂). Metal oxides.

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. Extinguishing water must not be discharged into drains.

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 inhalation of oil mist and contact with skin and eyes.
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6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil. Contact local authorities in case of spillage to drain/aquatic environment.
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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 inhalation of oil mist and contact with skin and eyes. Avoid swallowing.
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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.
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Conditions for safe storage

Packaging compatibilities	Store in original container.
Advice on storage compatability	Stored separately 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

Substance	Identification	Exposure limits	TWA Year
Decanes and higher aliphatic hydrocarbons		Limit value (8 h) : 40 ppm	
		Limit value (8 h) : 275 mg/m ³	
Oil vapour		Limit value (8 h) : 50 mg/m ³	
Oil mist (mineral particles)		Limit value (8 h) : 1 mg/m ³	
Control parameters comments	References (laws/regulations): Norwegian regulation on exposure limits: FOR-2011-12-06-1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2023-03-24-412).		

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 ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).
Additional eye protection measures	Eye wash facilities should 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 gloves type	Nitrile.
Breakthrough time	Value: > 8 hour(s)

Thickness of glove material	Comments: No specific information from the manufacturer.
Hand protection equipment	Description: Use chemical resistant gloves. The gloves abilities may vary among the different glove manufacturers. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (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 skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: If there is insufficient ventilation, use a respirator with type A-filter. When spraying use suitable air-supplied respirator. Use filtercombination A/P2 by spraying or aerosol formation. 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). BS-EN 140 (Respiratory protective devices. Half masks and quarter masks. Requirements, testing, marking)
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Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid. (Suspension.)
Colour	Brown Light (or pale).
Odour	Hydrocarbon. (Slight.)
Odour limit	Comments: Not specified by the manufacturer.
pH	Comments: Not specified by the manufacturer.
Melting point / melting range	Comments: Not specified by the manufacturer.
Boiling point / boiling range	Value: 228 - 258 °C
Flash point	Value: 95 °C Method: Closed cup
Flammability	May be combustible at high temperature.
Explosion limit	Comments: Not specified by the manufacturer.
Vapour pressure	Comments: Not specified by the manufacturer.

Vapour density	Comments: Not specified by the manufacturer.
Relative density	Value: 0,84 Temperature: 20 °C
Density	Comments: Not specified by the manufacturer.
Solubility	Medium: Water Comments: Partly soluble in: cold water.
Partition coefficient: n-octanol/ water	Comments: Not specified by the manufacturer.
Auto-ignition temperature	Value: 230 °C
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Comments: Not specified by the manufacturer.

9.2. Other information

Physical hazards

Pour point	Comments: Not specified by the manufacturer.
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9.2.2. Other safety characteristics

Comments	No further information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No specific test data related to reactivity available for this chemical or its ingredients.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal conditions.
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10.4. Conditions to avoid

Conditions to avoid	Not specified by the manufacturer.
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10.5. Incompatible materials

Materials to avoid	Not specified by the manufacturer.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

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

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	Based on available data, the classification criteria are not met.
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	May be fatal if swallowed and enters airways.

Symptoms of exposure

In case of ingestion	If, by vomiting, the chemical reaches the lungs, life-threatening chemical pneumonia may develop. Symptoms such as coughing, breathing difficulties, vomiting or lethargy may indicate chemical pneumonitis.
In case of skin contact	Prolonged and repeated skin contact will cause defatting and possible irritation.
In case of inhalation	Solvent vapours are hazardous and may cause nausea, sickness and headaches.
In case of eye contact	No specific health warnings noted.

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

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.
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12.2. Persistence and degradability

Persistence and degradability description/evaluation

There are no data available on the chemical itself.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation

Information on bioaccumulation is not available for the chemical.

12.4. Mobility in soil

Mobility

Partly soluble in water. Floats on 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

Forms an oil film on water surfaces that may harm organisms in the water and disrupt oxygen transport in the boundary layer between air and water.
Prevent unintentional discharges into sewers/ water courses 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: 16 50 73
Classified as hazardous waste: Yes

NORSAS

7042 Organic solvents, non -halogenated.

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.
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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	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
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14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
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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.
Comments	Contains no substances listed on the list of restricted substances or at the Authorisation list. Contains no or less than 0.1% of substances on the candidate list (SVHC substances).

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)	EUH 066 Repeated exposure may cause skin dryness or cracking. H304 May be fatal if swallowed and enters airways.
CLP classification, comments	Asp tox.1 H304; Expert judgment.

Key literature references and sources for data	Suppliers Safety data sheet dated: 24.03.2023
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) IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code IMO: International Maritime Organization 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 - 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	2
Prepared by	Kiwa Kompetanse, Norway by SR