

SAFETY DATA SHEET

Aka-Lube Blue Concentrate

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

1.1. Product identifier Trade name Aka-Lube Blue Concentrate Product no. 49605013, 49605017 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Lubricant for metallographic polishing Uses advised against No special 1.3. Details of the supplier of the safety data sheet Company and address Akasel A/S Svogerslev Hovedgade 48 4000 Roskilde Denmark +45 57 84 05 01 www.akasel.com E-mail safety@akasel.com SDS date 27-09-2021 SDS Version 2.0 Date of previous version 2021-06-04 (1.0) 1.4. Emergency telephone number Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures". SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) 2.2. Label elements

Hazard pictogram(s)

Not applicable Signal word Not applicable Hazard statement(s) Not applicable Safety statement(s) General -Prevention



| Response |
|---|
| Storage |
| Disposal |
| Hazardous substances No special 2.3. Other hazards Additional labelling Not applicable Additional warnings This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. |
| |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---------------------|----------------------------------|--------|----------------|------|
| Propane-1,2-diol | CAS No.: 57-55-6 | 60-80% | | |
| | EC No.: 200-338-0 | | | |
| | REACH: 01-2119456809-23- xxxx | | | |
| | Index No.: | | | |
| Polyethylene glycol | CAS No.: 25322-68-3 | 15-25% | | |
| | EC No.: 500-038-2 | | | |
| | REACH: | | | |
| | Index No.: | | | |
| | | | | |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) and continue until irritation stops.



Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

No special

4.3. Indication of any immediate medical attention and special treatment needed

No special

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No special

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

5.3. Advice for firefighters

Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures No specific requirements

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

▼ 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

No special conditions required.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.



7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propane-1,2-diol Long term exposure limit (8 hours) (ppm): 150(total) Long term exposure limit (8 hours) (mg/m³): 474(total)/10(particulates)

ethanediol ethylene glycol Long term exposure limit (8 hours) (ppm): 20(vapour) Long term exposure limit (8 hours) (mg/m³): 10(particulate)/52(vapour) Short term exposure limit (15 minutes) (ppm): 40 (vapour) Short term exposure limit (15 minutes) (mg/m³): 104 (vapour) Annotations: Sk = Can be absorbed through the skin and lead to systemic toxicity.

Ethanol, ethyl alcohol Long term exposure limit (8 hours) (ppm): 1000 Long term exposure limit (8 hours) (mg/m³): 1920

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

| Product/substance | Propane-1,2-diol |
|-------------------|---|
| DNEL | 168mg/m3 |
| Route of exposure | Inhalation |
| Duration | Long term – Systemic effects - Workers |
| Product/substance | Propane-1,2-diol |
| DNEL | 10mg/m3 |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - Workers |
| Product/substance | Propane-1,2-diol |
| DNEL | 213mg/kg bw/dg |
| Route of exposure | Dermal |
| Duration | Long term – Systemic effects - General population |
| Product/substance | Propane-1,2-diol |
| DNEL | 50mg/m3 |
| Route of exposure | Inhalation |
| Duration | Long term – Systemic effects - General population |
| Product/substance | Propane-1,2-diol |
| DNEL | 85 mg/m3 |
| Route of exposure | Oral |
| Duration | Long term – Systemic effects - General population |
| Product/substance | Propane-1,2-diol |
| DNEL | 10mg/m3 |



Route of exposureInhalationDurationLong term - Local effects - General population

▼ PNEC

| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 260 mg/l Freshwater |
|--|--|
| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 26mg/l Marine water |
| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 183mg/l Intermittent release |
| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 572 mg/kg d.w Freshwater sediment |
| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 50mg/kg d.w Soil |
| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 2000mg/l Activated Sludge Plant |
| Product/substance PNEC Route of exposure Duration of Exposure | Propane-1,2-diol 57.2mg/kg d.w Marine water sediment |

▼ 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis. General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures



| No special when used as intended. - Skin protection Recommended Type No specific requirements. - Hand protection - Material Glog No specific requirements - Hand protection - Waterial Glog No specific requirements - Very protection - Work situation Type At risk of splashing in the eyes Were CTION 9: Physical and chemical protection - Information on basic physical and Form - | ve equipment. ass Colou - pe/Category ove thickness (mm) pe ear safety glasses with | r Standard - Standa - Breakthrough time (m | nin.) Sta - | andards dards 56 | |
|--|---|--|------------------------|------------------------|--|
| Use only CE marked protection Respiratory Equipment Type Cla No special when used as - intended. Skin protection Recommended Typ No specific requirements Hand protection Material Gla No specific requirements - Fye protection Work situation Typ At risk of splashing in the Wa eyes CTION 9: Physical and chemical protection Information on basic physical a Form | ass Colour pe/Category ove thickness (mm) pe ear safety glasses with | - Standa - Breakthrough time (m | nin.) Stand | dards | |
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| Work situation Type At risk of splashing in the wee Wee CTION 9: Physical and chemical provident of the second | ear safety glasses with | n side shields. | | | |
| At risk of splashing in the We eyes CTION 9: Physical and chemical p . Information on basic physical a Form | ear safety glasses with | n side shields. | | | |
| eyes CTION 9: Physical and chemical p . Information on basic physical a Form | | n side shields. | EN16 | 56 | |
| . Information on basic physical a Form | properties | | | | |
| Form | | | | | |
| | and chemical prope | rties | | | |
| | | | | | |
| Liquid Colour | | | | | |
| Blue | | | | | |
| Odour | | | | | |
| None | | | | | |
| Odour threshold (ppm) Testing not relevant or not p | ossible due to patu | ro of the product | | | |
| pH | | re of the product. | | | |
| Testing not relevant or not p | ossible due to natu | re of the product. | | | |
| Density (g/cm³) | | | | | |
| Testing not relevant or not p | ossible due to natu | re of the product. | | | |
| Viscosity Testing not relevant or not p | ossible due to patu | ra of the product | | | |
| ase changes | | re of the product. | | | |
| Melting point (°C) | | | | | |
| Testing not relevant or not p | ossible due to natu | re of the product. | | | |
| Boiling point (°C) 100.00 °C | | | | | |
| | | | | | |
| Vapour pressure | | | | | |

Testing not relevant or not possible due to nature of the product.



| Decomposition temperature (°C) Testing not relevant or not possible due to nature of the product. Evaporation rate (n-butylacetate = 100) |
|---|
| Data on fire and explosion hazards |
| Flash point (°C) |
| Testing not relevant or not possible due to nature of the product. Ignition (°C) |
| Testing not relevant or not possible due to nature of the product. Auto flammability (°C) |
| Testing not relevant or not possible due to nature of the product. Explosion limits (% v/v) |
| Testing not relevant or not possible due to nature of the product. Explosive properties |
| Testing not relevant or not possible due to nature of the product. |
| Oxidizing properties |
| Testing not relevant or not possible due to nature of the product. |
| Solubility |
| Solubility in water |
| Soluble n-octanol/water coefficient |
| Testing not relevant or not possible due to nature of the product. |
| Solubility in fat (g/L) |
| Testing not relevant or not possible due to nature of the product. |
| 9.2. Other information |
| SECTION 10: Stability and reactivity |
| 10.1. Reactivity |

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

- 10.3. Possibility of hazardous reactions
 - No special
- 10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

▼ Acute toxicity

| Product/substance | Propane-1,2-diol |
|-------------------|------------------|
| Test method | |
| Species | Rabbit |
| Route of exposure | Dermal |
| Test | LD50 |
| Result | >2000 mg/kg |
| Other information | |
| | |

Product/substance Propane-1,2-diol



| Test method Species Route of exposure Test Result Other information | Guinea pig Intraperitoneal LD50 9718 mg/kg |
|---|---|
| Product/substance Test method Species Route of exposure Test Result Other information | Propane-1,2-diol Rat Oral LD50 6423 mg/kg |
| Product/substance Test method Species Route of exposure Test Result Other information | Propane-1,2-diol Rabbit Oral LD50 18500 mg/kg |
| Product/substance Test method Species Route of exposure Test Result Other information | Propane-1,2-diol Rabbit Inhalation LC50 (2 hours) >317 mg/L |
| Product/substance Test method Species Route of exposure Test Result Other information | ethanediol ethylene glycol Guinea pig Intraperitoneal LD50 5614 mg/kg |
| Product/substance Test method Species Route of exposure Test Result Other information | ethanediol ethylene glycol Guinea pig Oral LD50 5500 mg/kg |
| Product/substance Test method Species Route of exposure Test | ethanediol ethylene glycol Rat Intravenous LD50 |



| | 3260 mg/kg |
|--|---|
| Product/substance | Ethanol, ethyl alcohol |
| Test method | |
| Species | Rat |
| Route of exposure | Oral |
| Test | LD50 |
| Result | 10470 mg/L |
| Other information | |
| Product/substance | Ethanol, ethyl alcohol |
| Test method | |
| Species | Rabbit |
| Route of exposure | Dermal |
| Test | LD50 |
| Result | >17100 mg/L |
| Other information | |
| Product/substance | Ethanol, ethyl alcohol |
| Test method | |
| Species | Guinea pig |
| Route of exposure | Intraperitoneal |
| Test | LD50 |
| Result Other information | 528 mg/kg |
| Skin corrosion/irritation | |
| Based on available o Serious eye damage/irr | data, the classification criteria are not met. ritation |
| Based on available o Serious eye damage/irr Based on available o Respiratory sensitisatio | data, the classification criteria are not met. ritation data, the classification criteria are not met. on |
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| Based on available of Serious eye damage/irr Based on available of Respiratory sensitisation Based on available of Skin sensitisation Based on available of | data, the classification criteria are not met. ritation data, the classification criteria are not met. on data, the classification criteria are not met. data, the classification criteria are not met. |
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| Based on available of Serious eye damage/irr Based on available of Respiratory sensitisation Based on available of Skin sensitisation Based on available of Germ cell mutagenicity Based on available of Carcinogenicity Based on available of Reproductive toxicity Based on available of STOT-single exposure Based on available of STOT-repeated exposure Based on available of Aspiration hazard Based on available of Carcinog term effects No special Other information | data, the classification criteria are not met. ritation data, the classification criteria are not met. n data, the classification criteria are not met. data, the classification criteria are not met. |
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| . Toxicity | |
|---------------------------------------|--------------------------------------|
| Product/substance | Propane-1,2-diol |
| Test method | |
| Species | Daphnia |
| Compartment | |
| Duration | 48 hours |
| Test | EC50 |
| Result | 110 mg/L |
| Other information | |
| Product/substance | Propane-1,2-diol |
| Test method | |
| Species | Fish |
| Compartment | |
| Duration | 96 hours |
| Test | LC50 |
| Result | 710 mg/L |
| Other information | · · · · ··· |
| | |
| Product/substance | Propane-1,2-diol |
| Test method | |
| Species | Algae |
| Compartment | |
| Duration | 96 hours |
| Test | ErC50 |
| Result | 19000 mg/L |
| Other information | |
| Product/substance | ethanediol ethylene glycol |
| Test method | , ., |
| Species | Daphnia |
| Compartment | |
| Duration | 48 hours |
| Test | EC50 |
| Result | 13140 mg/L |
| Other information | |
| | |
| Product/substance Test method | ethanediol ethylene glycol |
| Species | Fish |
| Compartment | |
| Duration | 96 hours |
| Test | LC50 |
| Result | 18500 mg/L |
| Other information | |
| | |
| | |
| Product/substance | Ethanol, ethyl alcohol |
| Product/substance Test method | Ethanol, ethyl alcohol |
| Test method Species | Ethanol, ethyl alcohol Crustacean |
| Test method | |
| Test method Species | Crustacean 16 h |
| Test method Species Compartment | Crustacean |



| Other information | | |
|----------------------------------|----------------------------|--|
| Product/substance Test method | Ethanol, ethyl alcohol | |
| Species | Fish | |
| Compartment | | |
| Duration | 96 hours | |
| Test | LC50 | |
| Result | 1100 mg/L | |
| Other information | | |
| Product/substance Test method | Ethanol, ethyl alcohol | |
| Species | Algae | |
| Compartment | | |
| Duration | 7 days | |
| Test | ECO | |
| Result | 5000 mg/L | |
| Other information | | |
| Product/substance Test method | Ethanol, ethyl alcohol | |
| Species | Daphnia | |
| Compartment | | |
| Duration | 48 hours | |
| Test | EC50 | |
| Result | 9268-14221 mg/L | |
| Other information | | |
| Product/substance | Ethanol, ethyl alcohol | |
| Test method | | |
| Species | Fish | |
| Compartment | | |
| Duration | 48 hours | |
| Test | LC50 | |
| Result | 8150 mg/L | |
| Other information | | |
| 2. Persistence and de | gradability | |
| Product/substance | Propane-1,2-diol | |
| Biodegradable | Yes | |
| Test method | OECD 301 F | |
| Result | 81,7 % | |
| Product/substance | ethanediol ethylene glycol | |
| Biodegradable | Yes | |
| Test method | OECD 301 A | |
| Result | 90-100 | |
| Product/substance | Ethanol, ethyl alcohol | |
| D'a da sura da bita | No. | |

Biodegradable

Test method

Yes



Result

12.3. Bioaccumulative potential

| Product/substance Test method | Propane-1,2-diol |
|----------------------------------|----------------------------|
| Potential | No |
| bioaccumulation | 0 7000 |
| LogPow | -0,7800 |
| BCF | 0.09 |
| Other information | |
| Product/substance | ethanediol ethylene glycol |
| Test method | |
| Potential | No |
| bioaccumulation | |
| LogPow | -1,3600 |
| BCF | No data available |
| Other information | |
| Product/substance | Ethanol, ethyl alcohol |
| Test method | |
| Potential | No |
| bioaccumulation | |
| LogPow | -0,3100 |
| BCF | No data available |
| Other information | |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

EWC code

Not applicable

Specific labelling Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 - 14.4

Not dangerous goods according to ADR, IATA and IMDG. ADR/RID Not applicable IMDG Not applicable



| According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830 |
|--|
| "MARINE POLLUTANT" No IATA Not applicable 14.5. Environmental hazards Not applicable 14.6. Special precautions for user Not applicable 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available |
| SECTION 15: Regulatory information |
| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Restrictions for application No special Demands for specific education No specific requirements SEVESO - Categories / dangerous substances Not applicable Additional information Not applicable Sources Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). 15.2. Chemical safety assessment No |
| SECTION 16: Other information |
| Full text of H-phrases as mentioned in section 3 H302, Harmful if swallowed. H373, May cause damage to organs through prolonged or repeated exposure. Abbreviations and acronyms ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CE = Conformité Européenne CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association |



IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit. SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Additional information Not applicable

The safety data sheet is validated by

iro@akasel.com

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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