



**Distributor:** Mager Scientific  
1100 Baker Rd.  
P.O. Box 160  
Dexter MI 48130-0160

**Phone:** (734) 426-3885

**Distributor Product No.**

**DP-3610 DP-3620**

**Manufacturer:** Akasel ApS  
**Manufacturer Product No.:** Aka-Lube Green (3600 series)

Dear Customer:

In order to comply with the Hazard Communication Law which went into effect November 25, 1985, and the Globally Harmonized System (GHS) regulation update introduced by the Occupational Safety and Health Administration (OSHA) in 2012, attached is the safety data sheet pertaining to our product noted above.

Additional sheets are available upon request. Please feel free to contact us if we can be of further assistance.

Sincerely,

Mager Scientific, Inc.  
Customer Service

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Aka-Lube Yellow, Green, Red

**Product no.**

3400, 3600, 3700

**REACH registration number**

Not applicable

**Other means of identification**

### 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**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

AKASEL ApS  
Svogerslev Hovedgade 48  
DK-4000 Roskilde  
tlf: +45 57 84 05 01  
fax: +45 57 84 06 01

**Contact person**

Morten J. Damgaard

**E-mail**

info@akasel.com

**SDS date**

03-10-2014

**SDS Version**

1.0

### 1.4. Emergency telephone number

Use your national or local emergency number  
See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This product is not classified as dangerous.  
See full text of H/R-phrases in section 2.2.

**DPD/DSD Classification**

-

-

### 2.2. Label elements

**Hazard pictogram(s)**

-

**Signal word**

-

**Hazard statement(s)**

-

According to EC-Regulation 1907/2006 (REACH)

<b>Safety statement(s)</b>	General	-
	Prevention	-
	Response	-
	Storage	-
	Disposal	-

**Identity of the substances primarily responsible for the major health hazards**

-

### 2.3. Other hazards

#### Additional labelling

Safety data sheet available on request. (EUH210)

#### Additional warnings

-

#### VOC

-

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances

NAME: Propane-1,2-diol  
 IDENTIFICATION NOS.: CAS-no: 57-55-6 EC-no: 200-338-0  
 CONTENT: 5-15%  
 DSD CLASSIFICATION: -  
 CLP CLASSIFICATION: -

NAME: Distillates (petroleum), hydrotreated light naphthenic <3% DMSO  
 IDENTIFICATION NOS.: CAS-no: 64742-53-6 EC-no: 265-156-6 Index-no: 649-466-00-2  
 CONTENT: 1-5%  
 DSD CLASSIFICATION: Xn;R65  
 CLP CLASSIFICATION: Asp. Tox. 1  
 H304

NAME: Distillates (petroleum), hydrotreated heavy naphthenic <3% DMSO  
 IDENTIFICATION NOS.: CAS-no: 64742-52-5 EC-no: 265-155-0 Index-no: 649-465-00-7  
 CONTENT: 1-5%  
 DSD CLASSIFICATION: Xn;R65  
 CLP CLASSIFICATION: Asp. Tox. 1  
 H304

NAME: 2-phenoxyethanol  
 IDENTIFICATION NOS.: CAS-no: 122-99-6 EC-no: 204-589-7 Index-no: 603-098-00-9  
 CONTENT: 1-5%  
 DSD CLASSIFICATION: Xn; R22 Xi; R36  
 CLP CLASSIFICATION: Acute tox. 4, Eye Irrit. 2  
 H302, H319

NAME: Alcohols, C16-18 and C18-unsatd, ethoxylated  
 IDENTIFICATION NOS.: CAS-no: 68920-66-1  
 CONTENT: <1%  
 DSD CLASSIFICATION: Xi;R38 N;R51/53  
 CLP CLASSIFICATION: Skin Irrit. 2, Aquatic Chronic 2  
 H315, H411

NAME: Alcohols, C16-18 and C18-unsatd., ethoxylated  
 IDENTIFICATION NOS.: CAS-no: 68920-66-1  
 CONTENT: <1%  
 DSD CLASSIFICATION: Xi;R38 N;R51/53  
 CLP CLASSIFICATION: Skin Irrit. 2, Aquatic Chronic 2  
 H315, H411

(\*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

### Other informations

## 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 continue. Never give an unconscious person water or similar.

#### Inhalation

Get the person into fresh air and stay with them.

#### Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor.

#### Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### Burns

Rinse with water until the pain stops and continue for 30 minutes.

### 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

### 6.2. Environmental precautions

No specific requirements.

### 6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

### 6.4. Reference to other sections

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

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

#### Storage temperature

NA

### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

Propane-1,2-diol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 150 ppm | 474 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

#### DNEL / PNEC

No data available.

### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

#### General recommendations

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

#### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

#### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements.

### Individual protection measures, such as personal protective equipment

-

#### Generally

Only CE-marked personal protection equipment should be used. Use only CE marked protective equipment.

#### Respiratory Equipment

No specific requirements.

#### Skin protection

No specific requirements.

#### Hand protection

No specific requirements.

#### Eye protection

No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Liquid	Various colors	None	8-9	-	-

#### Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

#### Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

#### Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

### 9.2. Other information

Solubility in fat	Additional information
-	N/A

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants 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

Substance	Species	Test	Route of exposure	Result
2-phenoxyethanol	Rat	LD50	Oral	1260 mg/kg
2-phenoxyethanol	Mouse	LD50	Intraperitoneal	490 mg/kg
2-phenoxyethanol	Rabbit	LD50	Skin	5mL/kg
Propane-1,2-diol	Rabbit	LD50	Oral	18500 mg/kg
Propane-1,2-diol	Mouse	LD50	Intraperitoneal	9718 mg/kg
Propane-1,2-diol	Rat	LD50	Intravenous	6423 mg/kg

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/irritation

No data available.

#### Respiratory or skin sensitisation

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

According to EC-Regulation 1907/2006 (REACH)

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

No special

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance	Species	Test	Test duration	Result
2-phenoxyethanol	Fish	LC50	96 h	344 mg/L
Propane-1,2-diol	Daphnia	EC50	48 h	110 mg/L
Propane-1,2-diol	Fish	LC50	96 h	710 mg/L

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BFC
No data available.			

**12.4. Mobility in soil**

2-phenoxyethanol: Log Koc= 0,997004, Calculated from LogPow (High mobility potential. ). Propane-1,2-diol: Log Koc= -0,650148, Calculated from LogPow (High mobility potential. ).

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

This product is not covered by the regulations on dangerous waste.

**Waste**

EWC code

-

**Specific labelling**

-

**Contaminated packing**

No specific requirements.

**SECTION 14: Transport information**

Not listed as dangerous goods under ADR and IMDG regulations.

**14.1 – 14.4**

ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	Notes
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS MP** Hazardous constituent
IATA/ICAO	UN-no.	Proper Shipping Name	Class	PG*	

**14.5. Environmental hazards**

-

According to EC-Regulation 1907/2006 (REACH)

#### 14.6. Special precautions for user

-

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

### SECTION 15: Regulatory information

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

##### Restrictions for application

-

##### Demands for specific education

-

##### Additional information

-

##### Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information'

#### Full text of H/R-phrases as mentioned in section 3

R22 - Harmful if swallowed.

R36 - Irritating to eyes.

R38 - Irritating to skin.

R65 - Harmful: may cause lung damage if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

#### The full text of identified uses as mentioned in section 1

#### Other symbols mentioned in section 2

-

#### Other

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.

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.

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

#### The safety data sheet is validated by

AW /CHYMEIA

#### Date of last essential change (First cipher in SDS version)

-

#### Date of last minor change (Last cipher in SDS version)

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