

## SAFETY DATA SHEET

## DiaMaxx Mono / DiaMaxx Poly

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

## 1.1. Product identifier

## Trade name

DiaMaxx Mono / DiaMaxx Poly

## Product no.

43114013-43118017 (Mono)/43122513-43128017 (Poly)

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

## Relevant identified uses of the substance or mixture

Polishing of metallographic samples

## 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

2020-09-28 (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<br>EC No.: 200-338-0<br>REACH: 01-2119456809-23-xxxx<br>Index No.:              | 15-25%   |   |             |
| Polyethylene glycol             | CAS No.: 25322-68-3<br>EC No.: 500-038-2<br>REACH:<br>Index No.:                                 | 15-25%   |   |             |
| Acrylic acid, prop-2-enoic acid | CAS No.: 79-10-7<br>EC No.: 201-177-9<br>REACH: 01-2119452449-31-xxxx<br>Index No.: 607-061-00-8 | <0.0001% | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Corr. 1A, H314<br>Aquatic Acute 1, H400 (M=1)<br>STOT SE 3, H335 (SCL: 1.00 %) | [1]         |
| Cyclohexane                     | CAS No.: 110-82-7<br>EC No.: 203-806-2<br>REACH:<br>Index No.: 601-017-00-1                      | <0.0001% | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                           | [1],<br>[3] |

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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

[3] The chemical substance is subject to REACH restrictions, REACH annex XVII.

## 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

Not applicable

### ▼ 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 / CO<sub>2</sub>).

### 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

Room temperature 18 to 23°C

#### 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/m<sup>3</sup>): 474(total)/10(particulates)

—  
Sodium hydroxide (caustic soda)

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2

—  
Acrylic acid, prop-2-enoic acid

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 29

Short term exposure limit (15 minutes) (ppm): 20 (1 min.)

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 59 (1 min.)

—  
Cyclohexane

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 350

Short term exposure limit (15 minutes) (ppm): 300

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1050

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/m <sup>3</sup>                   |
| Route of exposure | Inhalation                             |
| Duration          | Long term – Systemic effects - Workers |

|                   |                     |
|-------------------|---------------------|
| Product/substance | Propane-1,2-diol    |
| DNEL              | 10mg/m <sup>3</sup> |
| 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 exposure | Inhalation  |
| Duration          | Long term – Local effects - General population    |

▼ PNEC

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

Duration of Exposure

|                      |                       |
|----------------------|-----------------------|
| Product/substance    | Propane-1,2-diol      |
| PNEC                 | 57.2mg/kg d.w         |
| Route of exposure    | Marine water sediment |
| Duration of Exposure |                       |

▼ 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

Wash hands after use.

Measures to avoid environmental exposure

No specific requirements

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

▼ Respiratory Equipment

| Type  | Class | Colour | Standards |
|---|-------|--------|-----------|
| Respiratory protection is not needed in the event of adequate ventilation | -     | -      | -         |

Skin protection

| Recommended               | Type/Category | Standards |
|---------------------------|---------------|-----------|
| No specific requirements. | -             | -         |

Hand protection

| Material                          | Glove thickness (mm) | Breakthrough time (min.) | Standards |
|-----------------------------------|----------------------|--------------------------|-----------|
| No special when used as intended. | -                    | -                        | -         |

▼ Eye protection

| Work situation                   | Type                                   | Standards |
|----------------------------------|--|-----------|
| At risk of splashing in the eyes | Wear safety glasses with side shields. | EN166     |



SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

### Form

Liquid

### Colour

Various colours

### Odour

Sweet

### Odour threshold (ppm)

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

### pH

6-6.5

### Density (g/cm<sup>3</sup>)

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

### Viscosity

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

## Phase changes

### Melting point (°C)

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

### Boiling point (°C)

100.00 °C

### Vapour pressure

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

### Vapour density

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)

110.00 °C

### 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           | Guinea pig       |
| Route of exposure | Intraperitoneal  |
| Test              | LD50             |
| Result            | 9718 mg/kg       |
| Other information |                  |

|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Test method       |                  |
| Species           | Rat              |
| Route of exposure | Oral             |
| Test              | LD50             |
| Result            | 6423 mg/kg       |
| Other information |                  |

|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Test method       |                  |
| Species           | Rabbit           |
| Route of exposure | Oral             |
| Test              | LD50             |
| Result            | 18500 mg/kg      |
| Other information |                  |

|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Test method       |                  |
| Species           | Rabbit           |
| Route of exposure | Inhalation       |
| Test              | LC50 (2 hours)   |
| Result            | >317 mg/L        |
| Other information |                  |



|                   |                          |
|-------------------|--------------------------|
| Product/substance | Trisodium orthophosphate |
| Test method       |                          |
| Species           | Rat                      |
| Route of exposure | Dermal                   |
| Test              | LD50                     |
| Result            | >2.000 mg/kg             |
| Other information |                          |

|                   |                          |
|-------------------|--------------------------|
| Product/substance | Trisodium orthophosphate |
| Test method       |                          |
| Species           | Rat                      |
| Route of exposure | Inhalation               |
| Test              | LC50 (4 hours)           |
| Result            | >0.83 mg/L               |
| Other information |                          |

|                   |                          |
|-------------------|--------------------------|
| Product/substance | Trisodium orthophosphate |
| Test method       |                          |
| Species           | Rat                      |
| Route of exposure | Oral                     |
| Test              | LD50                     |
| Result            | >2.000 mg/kg             |
| Other information |                          |

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### ▼ Respiratory sensitisation

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

#### ▼ Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### Long term effects

No special

#### Other information

Acrylic acid, prop-2-enoic acid has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### ▼ 12.1. Toxicity

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|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Test method       |                  |
| Species           | Daphnia          |
| Compartment       |                  |
| Duration          | 48 hours         |
| Test              | EC50             |
| Result            | 110 mg/L         |
| Other information |                  |

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|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Test method       |                  |
| Species           | Fish             |
| Compartment       |                  |
| Duration          | 96 hours         |
| Test              | LC50             |
| Result            | 710 mg/L         |
| Other information |                  |

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|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Test method       |                  |
| Species           | Algae            |
| Compartment       |                  |
| Duration          | 96 hours         |
| Test              | ErC50            |
| Result            | 19000 mg/L       |
| Other information |                  |

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|                   |                          |
|-------------------|--------------------------|
| Product/substance | Trisodium orthophosphate |
| Test method       |                          |
| Species           | Daphnia                  |
| Compartment       |                          |
| Duration          | 48 hours                 |
| Test              | EC50                     |
| Result            | >100 mg/L                |
| Other information |                          |

---

|                   |                          |
|-------------------|--------------------------|
| Product/substance | Trisodium orthophosphate |
| Test method       |                          |
| Species           | Fish                     |
| Compartment       |                          |
| Duration          | 96 hours                 |
| Test              | LC50                     |
| Result            | >100 mg/L                |
| Other information |                          |

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|                   |                          |
|-------------------|--------------------------|
| Product/substance | Trisodium orthophosphate |
| Test method       |                          |
| Species           | Algae                    |
| Compartment       |                          |
| Duration          | 72 hours                 |
| Test              | EC50                     |
| Result            | >100 mg/L                |

Other information

▼ 12.2. Persistence and degradability

|                   |                  |
|-------------------|------------------|
| Product/substance | Propane-1,2-diol |
| Biodegradable     | Yes              |
| Test method       | OECD 301 F       |
| Result            | 81,7 %           |

▼ 12.3. Bioaccumulative potential

|                           |                  |
|---------------------------|------------------|
| Product/substance         | Propane-1,2-diol |
| Test method               |                  |
| Potential bioaccumulation | No               |
| LogPow                    | -0,7800          |
| BCF                       | 0.09             |
| 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

"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

Restricted to professional users.

#### Demands for specific education

No specific requirements

#### SEVESO - Categories / dangerous substances

Not applicable

#### Additional information

Not applicable

#### Sources

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

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

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H336, May cause drowsiness or dizziness.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

### 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.

Country-language: GB-en