

# SAFETY DATA SHEET

according to Regulation 29 CFR 1910.1200

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## Doyen SK 33 E

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

#### 1.1. Product identifier

**Trade name/designation:**

Doyen SK 33 E

**Article No.:**

GB

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

**Use of the substance/mixture:**

Washing and cleaning products

**Relevant identified uses:**

**Life cycle stage [LCS]**

**PW:** Widespread use by professional workers

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**MEIKO UK LTD.**

393 Edinburgh Avenue

SL1 4UF Slough, Berkshire

UK

**Telephone:** +44 1753 215120

**Telefax:** +44 1753 215159

**E-mail:** MeikoUK@meiko-uk.co.uk

**Website:** www.meiko-global.com

#### 1.4. Emergency telephone number

UK NPIS, 24h: 0344 892 0111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation 29 CFR 1910.1200-:**

| Hazard classes and hazard categories                         | Hazard statements                    | Classification procedure |
|--|--------------------------------------|--------------------------|
| Serious eye damage/eye irritation<br>( <i>Eye Irrit. 2</i> ) | H319: Causes serious eye irritation. | Calculation method.      |

#### 2.2. Label elements

**Labelling according to Regulation 29 CFR 1910.1200**

**Hazard pictograms:**



**GHS07**

Exclamation mark

**Signal word:** Warning

**hazard statements for health hazards**

H319 Causes serious eye irritation.

**Supplemental hazard information:** -

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### Precautionary statements Prevention

P280 Wear eye/face protection.

### Precautionary statements Response

P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| product identifiers   | Substance name<br>Classification according to Regulation 29 CFR 1910.1200  | Concentration        |
|---|--|----------------------|
| CAS No.: 37971-36-1<br>REACH No.:<br>01-2119436643-39                   | <b>phosphonobutane tricarboxylic acid</b><br>Eye Irrit. 2 (H319), Met. Corr. 1 (H290)<br><b>Warning</b>                  | 5 - ≤ 10<br>weight-% |
| CAS No.: 77-92-9<br>EC No.: 201-069-1<br>REACH No.:<br>01-2119457026-42 | <b>citric acid</b><br>Eye Irrit. 2 (H319)<br><b>Warning</b>  | 5 - ≤ 10<br>weight-% |
|   | <b>fatty alcohol alkoxyate 4</b><br>Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319)<br><b>Warning</b> | 2 - ≤ 8<br>weight-%  |
| CAS No.: 67-63-0<br>EC No.: 200-661-7<br>REACH No.:<br>01-2119457558-25 | <b>Propan-2-ol</b><br>Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br><b>Danger</b>                        | 1 - ≤ 5<br>weight-%  |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

#### Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Water

Dry extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

Co-ordinate fire-fighting measures to the fire surroundings.

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

The product itself does not burn.

#### Hazardous combustion products:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water-.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up:

Water

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

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### Fire prevent measures:

No special measures are necessary.

### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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

#### Technical measures and storage conditions:

Keep/Store only in original container.

Recommended storage temperature 5-40°C

Please note the expiry date

**Storage class (TRGS 510, Germany):** 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name                                       | ① Long-term occupational exposure limit value<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|--|--|
| WEL (GB)                             | Propan-2-ol<br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | ① 400 ppm (999 mg/m <sup>3</sup> )<br>② 500 ppm (1,250 mg/m <sup>3</sup> )   |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

| Substance name                                       | PNEC Value | ① PNEC type                   |
|--|------------|-------------------------------|
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1 | 0.44 mg/l  | ① PNEC aquatic, freshwater    |
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1 | 0.044 mg/l | ① PNEC aquatic, marine water  |
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1 | 1,000 mg/l | ① PNEC sewage treatment plant |
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1 | 3.46 mg/kg | ① PNEC sediment, freshwater   |
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1 | 34.6 mg/kg | ① PNEC sediment, marine water |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

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### 8.2.2. Personal protection equipment



#### Eye/face protection:

Eye glasses with side protection EN 166

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Liquid

Colour: colourless

Odour: Alcohol

#### Safety relevant basis data

| parameter                                    |                       | at °C | Method | Remark |
|--|-----------------------|-------|--------|--------|
| pH   | 1.3                   | 20 °C |        | acidic |
| Melting point                                | <i>not determined</i> |       |        |        |
| Freezing point                               | <i>not determined</i> |       |        |        |
| Initial boiling point and boiling range      | > 90 °C               |       |        |        |
| Decomposition temperature                    | <i>not determined</i> |       |        |        |
| Flash point                                  | = 54 °C               |       |        |        |
| Evaporation rate                             | <i>not determined</i> |       |        |        |
| Auto-ignition temperature                    | <i>not determined</i> |       |        |        |
| Upper/lower flammability or explosive limits | <i>not determined</i> |       |        |        |
| Vapour pressure                              | <i>not determined</i> |       |        |        |
| Vapour density                               | <i>not determined</i> |       |        |        |
| Density                                      | ≈ 1 g/ml              | 20 °C |        |        |
| Relative density                             | <i>not determined</i> |       |        |        |
| Bulk density                                 | <i>not determined</i> |       |        |        |
| Water solubility                             | completely miscible   | 20 °C |        |        |
| Partition coefficient: n-octanol/water       | <i>not determined</i> |       |        |        |
| Dynamic viscosity                            | <i>not determined</i> |       |        |        |
| Kinematic viscosity                          | <i>not determined</i> | 40 °C |        |        |

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product itself does not burn.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

No special measures are necessary.

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### 10.5. Incompatible materials

Materials to avoid: Alkali (lye)

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

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

| Substance name  | Toxicological information  |
|---|--|
| phosphonobutane tricarboxylic acid<br>CAS No.: 37971-36-1 | <b>LD<sub>50</sub> oral:</b><br>>6,500 mg/kg (Rat)<br><b>LD<sub>50</sub> dermal:</b><br>>5,000 mg/kg (Rat)   |
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1      | <b>LD<sub>50</sub> oral:</b><br>=5,400 mg/kg (Mouse)<br><b>LD<sub>50</sub> dermal:</b><br>>2,000 mg/kg (Rat) |
| fatty alcohol alkoxyolate 4                               | <b>LD<sub>50</sub> oral:</b><br>>300 - <2,000 mg/kg (Rat)  |

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

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

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or 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.

#### Additional information:

No data available

### 11.2. Information on other hazards

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

| Substance name  | Toxicological information  |
|---|--|
| phosphonobutane tricarboxylic acid<br>CAS No.: 37971-36-1 | <b>LC<sub>50</sub></b> : >1,042 mg/l 4 d (fish-, Danio rerio (zebrafish-))<br><b>EC<sub>50</sub></b> : >1,071 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) |
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1      | <b>LC<sub>50</sub></b> : =440 mg/l 2 d (fish-, Leuciscus idus (golden orfe))   |
| fatty alcohol alkoxyolate 4                               | <b>LC<sub>50</sub></b> : >1 - <10 mg/l 2 d (fish-, Leuciscus idus (golden orfe))<br><b>NOEC</b> : >0.1 - <1 mg/l 21 d  |
| Propan-2-ol<br>CAS No.: 67-63-0<br>EC No.: 200-661-7      | <b>EC<sub>50</sub></b> : >1,000 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus)  |

#### 12.2. Persistence and degradability

| Substance name                                       | Biodegradation | Remark |
|--|----------------|--------|
| citric acid<br>CAS No.: 77-92-9<br>EC No.: 201-069-1 | Yes, rapidly   |        |
| fatty alcohol alkoxyolate 4                          | Yes, rapidly   |        |
| Propan-2-ol<br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | Yes, rapidly   |        |

#### 12.3. Bioaccumulative potential

| Substance name  | Log K <sub>OW</sub> | Bioconcentration factor (BCF) |
|---|---------------------|-------------------------------|
| phosphonobutane tricarboxylic acid<br>CAS No.: 37971-36-1 | -1.36               |                               |
| Propan-2-ol<br>CAS No.: 67-63-0<br>EC No.: 200-661-7      | -0.16               |                               |

#### 12.4. Mobility in soil

No data available

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

| Substance name  | Results of PBT and vPvB assessment                                       |
|---|--|
| phosphonobutane tricarboxylic acid<br>CAS No.: 37971-36-1 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

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### Waste code product:

|            |  |
|------------|--|
| 20 01 29 * | Detergents containing hazardous substances |
|------------|--|

\*: Evidence for disposal must be provided.

### Waste code packaging:

|            |  |
|------------|--|
| 15 01 10 * | packaging containing residues of or contaminated by dangerous substances |
|------------|--|

\*: Evidence for disposal must be provided.

### Waste treatment options

#### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Completely emptied packages can be recycled.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--------------------------|-----------------------------|----------------------|------------------------------------|
|--------------------------|-----------------------------|----------------------|------------------------------------|

### 14.1. UN number or ID number

|  |  |  |  |
|--|--|--|--|
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
|--|--|--|--|

### 14.2. UN proper shipping name

|  |  |  |  |
|--|--|--|--|
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
|--|--|--|--|

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

|  |  |  |  |
|--|--|--|--|
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
|--|--|--|--|

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not relevant

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

###### Other regulations .-:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Volatile organic compounds (VOC) content in percent by weight: 4 %

Regulation (EC) No. 648/2004 (Detergents regulation):

5-15% non-ionic surfactants, phosphonates

##### 15.1.2. National regulations

No data available

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

No data available

#### 16.4. Classification for mixtures and used evaluation method according to regulation 29 CFR 1910.1200

##### Classification according to Regulation 29 CFR 1910.1200-:

| Hazard classes and hazard categories                | Hazard statements                    | Classification procedure |
|---|--------------------------------------|--------------------------|
| Serious eye damage/eye irritation<br>(Eye Irrit. 2) | H319: Causes serious eye irritation. | Calculation method.      |

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements |  |
|-------------------|--|
| H225              | Highly flammable liquid and vapour.                |
| H290              | May be corrosive to metals.                        |
| H302              | Harmful if swallowed.                              |
| H319              | Causes serious eye irritation.                     |
| H336              | May cause drowsiness or dizziness.                 |
| H412              | Harmful to aquatic life with long lasting effects. |

#### 16.6. Training advice

No data available

#### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.