

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Description: DOSIMYCO Mobile Phase A  
Cat No. : SP/3613/15

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

Recommended Use Laboratory chemicals.  
Uses advised against No Information available

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

#### Company

**UK entity/business name**  
Fisher Scientific UK  
Bishop Meadow Road, Loughborough,  
Leicestershire LE11 5RG, United Kingdom

**EU entity/business name**  
Thermo Fisher Scientific  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

### 1.4. Emergency telephone number

Tel: 01509 231166  
Chemtrec US: (800) 424-9300  
Chemtrec EU: 001-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

##### Physical hazards

Flammable liquids Category 3 (H226)

##### Health hazards

Acute oral toxicity Category 4 (H302)  
Acute Inhalation Toxicity - Vapors Category 4 (H332)  
Specific target organ toxicity - (single exposure) Category 2 (H371)

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

## Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

## 2.2. Label elements

Contains METHANOL



Signal Word

Warning

## Hazard Statements

H226 - Flammable liquid and vapor  
H302 + H332 - Harmful if swallowed or if inhaled  
H371 - May cause damage to organs

## Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell

## 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| Component        | CAS No    | EC No             | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567                      |
|------------------|-----------|-------------------|----------|--|
| Methyl alcohol   | 67-56-1   | 200-659-6         | 8.1      | Flam. Liq. 2 (H225)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>STOT SE 1 (H370) |
| Water            | 7732-18-5 | 231-791-2         | 91.76    | -  |
| Ammonium formate | 540-69-2  | EEC No. 208-753-9 | 0.02     | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335)  |

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

|             |         |           |      |  |
|-------------|---------|-----------|------|--|
| Formic acid | 64-18-6 | 200-579-1 | 0.12 | Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H302)<br>Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)<br>Acute Tox. 3 (H331)<br>EUH071 |
|-------------|---------|-----------|------|--|

| Component      | Specific concentration limits (SCL's)   | M-Factor | Component notes |
|----------------|---|----------|-----------------|
| Methyl alcohol | STOT Single Exp. 1 :: >= 10<br>STOT Single Exp. 2 :: 3 - < 10   | -        | -               |
| Formic acid    | Skin Corr. 1A :: C>=90%<br>Skin Corr. 1B :: 10%<=C<90%<br>Skin Irrit. 2 :: 2%<=C<10%<br>Eye Irrit. 2 :: 2%<=C<10% | -        | -               |

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General Advice</b>                     | If symptoms persist, call a physician.   |
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                  |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                                |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water.   |
| <b>Inhalation</b>                         | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.                                     |
| <b>Self-Protection of the First Aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

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

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

|                           |   |
|---------------------------|---|
| <b>Notes to Physician</b> | Treat symptomatically. Symptoms may be delayed. |
|---------------------------|---|

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water mist may be used to cool closed containers.

#### Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

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

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

## **Hazardous Combustion Products**

None under normal use conditions.

### **5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

### **6.2. Environmental precautions**

Should not be released into the environment.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place.

**Technical Rules for Hazardous Substances (TRGS) 510**  
**Storage Class (LGK) (Germany)**

Class 3

### **7.3. Specific end use(s)**

Use in laboratories

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component      | The United Kingdom   | European Union   | Ireland  |
|----------------|--|--|--|
| Methyl alcohol | WEL - TWA: 200 ppm TWA;<br>266 mg/m <sup>3</sup> TWA<br>WEL - STEL: 250 ppm<br>STEL; 333 mg/m <sup>3</sup> STEL  | TWA: 200 ppm 8 hr<br>TWA: 260 mg/m <sup>3</sup> 8 hr<br>Skin | TWA: 200 ppm 8 hr.<br>TWA: 260 mg/m <sup>3</sup> 8 hr.<br>STEL: 600 ppm 15 min<br>STEL: 780 mg/m <sup>3</sup> 15 min<br>Skin |
| Formic acid    | STEL: 15 ppm 15 min<br>STEL: 28.8 mg/m <sup>3</sup> 15 min<br>TWA: 5 ppm 8 hr<br>TWA: 9.6 mg/m <sup>3</sup> 8 hr | TWA: 5 ppm 8 hr<br>TWA: 9 mg/m <sup>3</sup> 8 hr             | TWA: 5 ppm 8 hr.<br>TWA: 9 mg/m <sup>3</sup> 8 hr.<br>STEL: 15 ppm 15 min<br>STEL: 27 mg/m <sup>3</sup> 15 min               |

#### Biological limit values

List source(s):

#### Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component                         | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|-----------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Methyl alcohol<br>67-56-1 ( 8.1 ) |                              | DNEL = 20mg/kg<br>bw/day        |                                | DNEL = 20mg/kg<br>bw/day          |

| Component                         | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-----------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | DNEL = 130mg/m <sup>3</sup>      | DNEL = 130mg/m <sup>3</sup>         | DNEL = 130mg/m <sup>3</sup>        | DNEL = 130mg/m <sup>3</sup>           |
| Formic acid<br>64-18-6 ( 0.12 )   |                                  | DNEL = 19 mg/m <sup>3</sup>         | DNEL = 9.5mg/m <sup>3</sup>        | DNEL = 9.5 mg/m <sup>3</sup>          |

#### Predicted No Effect Concentration (PNEC)

See values below.

| Component                         | Fresh water     | Fresh water sediment            | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)         |
|-----------------------------------|-----------------|---------------------------------|--------------------|------------------------------------|----------------------------|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | PNEC = 20.8mg/L | PNEC = 77mg/kg<br>sediment dw   | PNEC = 1540mg/L    | PNEC = 100mg/L                     | PNEC = 100mg/kg<br>soil dw |
| Formic acid<br>64-18-6 ( 0.12 )   | PNEC = 2mg/L    | PNEC = 13.4mg/kg<br>sediment dw | PNEC = 1mg/L       | PNEC = 7.2mg/L                     | PNEC = 1.5mg/kg<br>soil dw |

| Component                         | Marine water    | Marine water sediment           | Marine water intermittent | Food chain | Air |
|-----------------------------------|-----------------|---------------------------------|---------------------------|------------|-----|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | PNEC = 2.08mg/L | PNEC = 7.7mg/kg<br>sediment dw  |                           |            |     |
| Formic acid<br>64-18-6 ( 0.12 )   | PNEC = 0.2mg/L  | PNEC = 1.34mg/kg<br>sediment dw |                           |            |     |

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles) (European standard - EN 166)

**Hand Protection** Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments        |
|----------------|-------------------|-----------------|-------------|-----------------------|
| Nitrile rubber | See manufacturers | -               | EN 374      | (minimum requirement) |
| Viton (R)      | recommendations   |                 |             |                       |

**Skin and body protection** Long sleeved clothing.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced  
**Recommended Filter type:** low boiling organic solvent Type AX Brown conforming to EN371 or Organic gases and vapours filter Type A Brown conforming to EN14387

**Small scale/Laboratory use** Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
**Recommended half mask:-** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141  
When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                          |                          |                       |
|--------------------------|--------------------------|-----------------------|
| Physical State           | Liquid                   |                       |
| Appearance               | No information available |                       |
| Odor                     | No information available |                       |
| Odor Threshold           | No data available        |                       |
| Melting Point/Range      | No data available        |                       |
| Softening Point          | No data available        |                       |
| Boiling Point/Range      | No information available |                       |
| Flammability (liquid)    | Flammable                | On basis of test data |
| Flammability (solid,gas) | Not applicable           | Liquid                |
| Explosion Limits         | No data available        |                       |

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

|   |                          |                    |
|---|--------------------------|--------------------|
| Flash Point                             | 50 °C / 122 °F           | Method - Estimated |
| Autoignition Temperature                | No data available        |                    |
| Decomposition Temperature               | No data available        |                    |
| pH                                      | No information available |                    |
| Viscosity                               | No data available        |                    |
| Water Solubility                        | Miscible                 |                    |
| Solubility in other solvents            | No information available |                    |
| Partition Coefficient (n-octanol/water) |                          |                    |
| Component                               | log Pow                  |                    |
| Methyl alcohol                          | -0.74                    |                    |
| Formic acid                             | -0.54                    |                    |
| Vapor Pressure                          | No data available        |                    |
| Density / Specific Gravity              | 0.985                    |                    |
| Bulk Density                            | Not applicable           | Liquid             |
| Vapor Density                           | No data available        | (Air = 1.0)        |
| Particle characteristics                | Not applicable (liquid)  |                    |

## 9.2. Other information

|                      |  |
|----------------------|--|
| VOC Content(%)       | 8.22                                   |
| Explosive Properties | explosive air/vapour mixtures possible |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

|                          |                               |
|--------------------------|-------------------------------|
| Hazardous Polymerization | No information available.     |
| Hazardous Reactions      | None under normal processing. |

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None under normal use conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Product Information

#### (a) acute toxicity;

|            |  |
|------------|--|
| Oral       | Category 4   |
| Dermal     | Based on available data, the classification criteria are not met |
| Inhalation | Category 4   |

#### Toxicology data for the components

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

| Component      | LD50 Oral                      | LD50 Dermal                   | LC50 Inhalation               |
|----------------|--------------------------------|-------------------------------|-------------------------------|
| Methyl alcohol | LD50 = 1187 – 2769 mg/kg (Rat) | LD50 = 17100 mg/kg ( Rabbit ) | LC50 = 128.2 mg/L ( Rat ) 4 h |
| Water          | -                              | -                             | -                             |
| Formic acid    | 730 mg/kg ( Rat )              | -                             | 7.85 mg/l (Rat) 4h OECD 403   |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available

Skin No data available

| Component                         | Test method   | Test species | Study result    |
|-----------------------------------|---|--------------|-----------------|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | OECD Test Guideline 406<br>Guinea Pig Maximisation Test<br>(GPMT) | guinea pig   | non-sensitising |

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

| Component                         | Test method             | Test species / Duration          | Study result              |
|-----------------------------------|-------------------------|----------------------------------|---------------------------|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | OECD Test Guideline 416 | Rat / Inhalation<br>2 Generation | NOAEC =<br>1.3 mg/l (air) |

(h) STOT-single exposure; Category 2

Results / Target organs Optic nerve, Central nervous system (CNS).

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects



# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

| Component      | Freshwater Fish                            | Water Flea            | Freshwater Algae   |
|----------------|--|-----------------------|--------------------|
| Methyl alcohol | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 > 10000 mg/L 24h |                    |
| Formic acid    | Leuciscus idus: LC50 = 46-100 mg/L/96h     | EC50 = 34 mg/L/48h    | EC50 = 25 mg/L/96h |

| Component      | Microtox  | M-Factor |
|----------------|---|----------|
| Methyl alcohol | EC50 = 39000 mg/L 25 min<br>EC50 = 40000 mg/L 15 min<br>EC50 = 43000 mg/L 5 min |          |
| Formic acid    | EC50 = 46.7 mg/L/17h  |          |

## 12.2. Persistence and degradability

### Persistence

Miscible with water, Persistence is unlikely, based on information available.

| Component                         | Degradability                  |
|-----------------------------------|--------------------------------|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | DT50 ~ 17.2d<br>>94% after 20d |

## 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component      | log Pow | Bioconcentration factor (BCF) |
|----------------|---------|-------------------------------|
| Methyl alcohol | -0.74   | <10 dimensionless             |
| Formic acid    | -0.54   | 0.22 dimensionless            |

## 12.4. Mobility in soil

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

## 12.5. Results of PBT and vPvB assessment

No data available for assessment.

## 12.6. Endocrine disrupting properties

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

| Component   | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances |
|-------------|--|--|
| Formic acid | Applicable                               |  |

## 12.7. Other adverse effects

### Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance  
This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Waste from Residues/Unused Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

#### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

#### European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

#### Other Information

Waste codes should be assigned by the user based on the application for which the product

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** FLAMMABLE LIQUID, N.O.S.  
**Technical Shipping Name** (contains METHANOL)  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

### ADR

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** FLAMMABLE LIQUID, N.O.S.  
**Technical Shipping Name** (contains METHANOL)  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

### IATA

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** FLAMMABLE LIQUID, N.O.S.  
**Technical Shipping Name** (contains METHANOL)  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

**14.5. Environmental hazards** No hazards identified  
**14.6. Special precautions for user** No special precautions required.  
**14.7. Maritime transport in bulk according to IMO instruments** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component        | CAS No    | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|------------------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Methyl alcohol   | 67-56-1   | 200-659-6 | -      | -   | X     | X    | KE-23193 | X    | X    |
| Water            | 7732-18-5 | 231-791-2 | -      | -   | X     | X    | KE-35400 | X    | -    |
| Ammonium formate | 540-69-2  | 208-753-9 | -      | -   | X     | X    | KE-17235 | X    | X    |
| Formic acid      | 64-18-6   | 200-579-1 | -      | -   | X     | X    | X        | X    | X    |

| Component      | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|----------------|---------|------|---|-----|------|------|-------|-------|
| Methyl alcohol | 67-56-1 | X    | ACTIVE  | X   | -    | X    | X     | X     |

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

|                  |           |   |        |   |   |   |   |   |
|------------------|-----------|---|--------|---|---|---|---|---|
| Water            | 7732-18-5 | X | ACTIVE | X | - | X | X | X |
| Ammonium formate | 540-69-2  | X | ACTIVE | X | - | X | X | X |
| Formic acid      | 64-18-6   | X | ACTIVE | X | - | X | X | X |

**Legend:** X - Listed '-' - Not Listed

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

## Authorisation/Restrictions according to EU REACH

| Component        | CAS No    | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances  | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|------------------|-----------|---|--|---|
| Methyl alcohol   | 67-56-1   | -   | Use restricted. See item 69.<br>(see link for restriction details)<br>Use restricted. See item 75.<br>(see link for restriction details) | -   |
| Water            | 7732-18-5 | -   | -  | -   |
| Ammonium formate | 540-69-2  | -   | -  | -   |
| Formic acid      | 64-18-6   | -   | Use restricted. See item 75.<br>(see link for restriction details)   | -   |

## REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

## Seveso III Directive (2012/18/EC)

| Component        | CAS No    | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|------------------|-----------|---|--|
| Methyl alcohol   | 67-56-1   | 500 tonne   | 5000 tonne   |
| Water            | 7732-18-5 | Not applicable  | Not applicable   |
| Ammonium formate | 540-69-2  | Not applicable  | Not applicable   |
| Formic acid      | 64-18-6   | Not applicable  | Not applicable   |

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

## National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## WGK Classification

Water endangering class = 2 (self classification)

| Component      | Germany - Water Classification (AwSV) | Germany - TA-Luft Class                  |
|----------------|---------------------------------------|--|
| Methyl alcohol | WGK 2                                 | Class I : 20 mg/m³ (Massenkonzentration) |

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

|                  |       |  |
|------------------|-------|--|
| Ammonium formate | WGK1  |  |
| Formic acid      | WGK 1 | Class I : 20 mg/m <sup>3</sup> (Massenkonzentration) |

| Component      | France - INRS (Tables of occupational diseases)      |
|----------------|--|
| Methyl alcohol | Tableaux des maladies professionnelles (TMP) - RG 84 |

| Component                         | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|-----------------------------------|--|---|---|
| Methyl alcohol<br>67-56-1 ( 8.1 ) | Prohibited and Restricted Substances   | Group I   |   |
| Formic acid<br>64-18-6 ( 0.12 )   | Prohibited and Restricted Substances   |   |   |

## 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed  
H332 - Harmful if inhaled  
H371 - May cause damage to organs  
H225 - Highly flammable liquid and vapor  
H226 - Flammable liquid and vapor  
H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H331 - Toxic if inhaled  
H335 - May cause respiratory irritation  
H370 - Causes damage to organs  
EUH071 - Corrosive to the respiratory tract

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

# SAFETY DATA SHEET

DOSIMYCO Mobile Phase A

Revision Date 20-Oct-2023

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (Volatile Organic Compound)

## Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

**Physical hazards** On basis of test data

**Health Hazards** Calculation method

**Environmental hazards** Calculation method

## Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Chemical incident response training.

**Creation Date** 30-Apr-2020

**Revision Date** 20-Oct-2023

**Revision Summary** Not applicable.

**This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.**

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**