

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

#### 1.1. Product identifier

|                 |  |
|-----------------|--|
| Product form    | : Mixture                                    |
| Trade name      | : Soleris® Confirmation Kit, Kovac's Reagent |
| Product code    | : KO-122                                     |
| Type of product | : Food Safety -- [Food Safety]               |
| Part Number(s)  | : KO-122 700002936                           |

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

##### 1.2.1. Relevant identified uses

|                              |   |
|------------------------------|---|
| Use of the substance/mixture | : Laboratory chemicals<br>Scientific research and development |
|------------------------------|---|

##### 1.2.2. Uses advised against

No additional information available

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

Neogen Corporation  
620 Leshner Place  
48912 Lansing – Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com) - <https://www.neogen.com/>

#### 1.4. Emergency telephone number

|                  |  |
|------------------|--|
| Emergency number | : 24 hours:<br>Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)<br>Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international) |
|------------------|--|

### SECTION 2: Hazards identification

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

##### Classification according to GB CLP (SI 2019:720 as amended)

|  |      |
|--|------|
| Flammable liquids, Category 3  | H226 |
| Acute toxicity (oral), Category 4  | H302 |
| Acute toxicity (inhalation:dust,mist) Category 3   | H331 |
| Skin corrosion/irritation, Category 1  | H314 |
| Serious eye damage/eye irritation, Category 1  | H318 |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3                          | H412 |
| Full text of H- and EUH-statements: see section 16   |      |

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GHS UK)



Signal word (GHS UK)

: Danger

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

|                                   |  |
|-----------------------------------|--|
| Contains                          | : 1-Pentanol; Hydrochloric acid  |
| Hazard statements (GHS UK)        | : H226 - Flammable liquid and vapour.<br>H302 - Harmful if swallowed.<br>H314 - Causes severe skin burns and eye damage.<br>H331 - Toxic if inhaled.<br>H335 - May cause respiratory irritation.<br>H412 - Harmful to aquatic life with long lasting effects.  |
| Precautionary statements (GHS UK) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof electrical, ventilating and lighting equipment.<br>P260 - Do not breathe dust, fume, gas, mist, vapours or spray.<br>P264 - Wash hands, forearms and face thoroughly after handling. |

### 2.3. Other hazards

#### Results of PBT and vPvB assessment

| Component  |   |
|--|---|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII  | 1-Pentanol (71-41-0), 4-(Dimethylamino) benzaldehyde (100-10-7) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | 1-Pentanol (71-41-0), 4-(Dimethylamino) benzaldehyde (100-10-7) |

#### Results of Endocrine Disruptor assessment

| Component   |   |
|---|---|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | 1-Pentanol(71-41-0), 4-(Dimethylamino) benzaldehyde(100-10-7) |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier                      | %       | Classification according to GB CLP (SI 2019:720 as amended)  |
|--|---|---------|--|
| 1-Pentanol   | CAS-No.: 71-41-0<br>EC-No.: 200-752-1   | 50 – 75 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312 (ATE=2000 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Irrit. 2, H315<br>STOT SE 3, H335 |
| Hydrochloric acid substance with workplace exposure limit(s) | CAS-No.: 7647-01-0<br>EC-No.: 231-595-7 | 15 – 25 | Acute Tox. 3 (Oral), H301 (ATE=238 mg/kg bodyweight)<br>Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.42 mg/l/4h)<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318               |

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| Name                           | Product identifier                     | %      | Classification according to GB CLP (SI 2019:720 as amended) |
|--------------------------------|--|--------|---|
| 4-(Dimethylamino) benzaldehyde | CAS-No.: 100-10-7<br>EC-No.: 202-819-0 | 5 – 10 | Aquatic Chronic 2, H411                                     |

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

No additional information available

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

No additional information available

#### 5.3. Advice for firefighters

No additional information available

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

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

No additional information available

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

No additional information available

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

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

Storage temperature : 2 – 8

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| Hydrochloric acid (7647-01-0)                 |   |
|---|---|
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Hydrogen chloride                         |
| WEL TWA (OEL TWA)                             | 2 mg/m <sup>3</sup> gas and aerosol mists |
|   | 1 ppm gas and aerosol mists               |
| WEL STEL (OEL STEL)                           | 8 mg/m <sup>3</sup> gas and aerosol mists |
|   | 5 ppm gas and aerosol mists               |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE     |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

##### 8.2.2.1. Eye and face protection

No additional information available

##### 8.2.2.2. Skin protection

No additional information available

##### 8.2.2.3. Respiratory protection

No additional information available

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

### SECTION 9: Physical and chemical properties

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

|   |                             |
|---|-----------------------------|
| Physical state                                  | : Liquid                    |
| Appearance                                      | : Liquid.                   |
| Colour  | : Colourless. Light yellow. |
| Odour   | : alcoholic.                |
| Odour threshold                                 | : Not available             |
| pH  | : Not available             |
| Melting point                                   | : Not available             |
| Freezing point                                  | : Not available             |
| Boiling point                                   | : Not available             |
| Flash point                                     | : > 23 – < 60 °C            |
| Flammability                                    | : Not available             |
| Explosive limits                                | : Not available             |
| Vapour pressure                                 | : Not available             |
| Vapour pressure at 50°C                         | : Not available             |
| Relative vapour density at 20°C                 | : Not available             |
| Relative density                                | : Not available             |
| Density   | : Not available             |
| Solubility                                      | : Soluble in water.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available             |
| Auto-ignition temperature                       | : Not available             |
| Decomposition temperature                       | : Not available             |
| Viscosity, kinematic                            | : Not available             |
| Explosive properties                            | : Not available             |

#### 9.2. Other information

|                          |                  |
|--------------------------|------------------|
| Particle characteristics | : Not applicable |
|--------------------------|------------------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                         |   |
|-------------------------|---|
| Acute toxicity (oral)   | : Harmful if swallowed.   |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

Acute toxicity (inhalation) : Inhalation:dust,mist: Toxic if inhaled.

| <b>Soleris® Confirmation Kit, Kovac's Reagent</b> |                          |
|---|--------------------------|
| ATE UK (oral)                                     | 991.667 mg/kg bodyweight |
| ATE UK (dust, mist)                               | 0.957 mg/l/4h            |

| <b>1-Pentanol (71-41-0)</b>       |   |
|-----------------------------------|---|
| LD50 oral rat                     | 3645 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 7 day(s))    |
| LD50 oral                         | 2690 mg/kg  |
| LD50 dermal rabbit                | 2292 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal                       | 2000 mg/kg  |
| LC50 Inhalation - Rat (Dust/Mist) | 21 mg/l/4h  |

| <b>Hydrochloric acid (7647-01-0)</b> |                           |
|--------------------------------------|---------------------------|
| LD50 oral rat                        | 238 – 277 mg/kg           |
| LD50 oral                            | 238 mg/kg                 |
| LD50 dermal rabbit                   | > 5010 mg/kg Source: ECHA |
| LD50 dermal                          | 5010 mg/kg                |
| LC50 Inhalation - Rat                | 8.3 mg/l Source: ECHA     |
| LC50 Inhalation - Rat [ppm]          | 1411 ppm                  |
| LC50 Inhalation - Rat (Dust/Mist)    | 0.42 mg/l/4h              |
| LC50 Inhalation - Rat (Vapours)      | 8.3 mg/l                  |

| <b>4-(Dimethylamino) benzaldehyde (100-10-7)</b> |  |
|--|--|
| LD50 oral rat                                    | > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |

Skin corrosion/irritation : Causes severe skin burns.

| <b>1-Pentanol (71-41-0)</b> |                                     |
|-----------------------------|-------------------------------------|
| pH                          | No data available in the literature |

| <b>Hydrochloric acid (7647-01-0)</b> |     |
|--------------------------------------|-----|
| pH                                   | < 1 |

| <b>4-(Dimethylamino) benzaldehyde (100-10-7)</b> |                                     |
|--|-------------------------------------|
| pH   | No data available in the literature |

Serious eye damage/irritation : Causes serious eye damage.

| <b>1-Pentanol (71-41-0)</b> |                                     |
|-----------------------------|-------------------------------------|
| pH                          | No data available in the literature |

| <b>Hydrochloric acid (7647-01-0)</b> |     |
|--------------------------------------|-----|
| pH                                   | < 1 |

| <b>4-(Dimethylamino) benzaldehyde (100-10-7)</b> |                                     |
|--|-------------------------------------|
| pH   | No data available in the literature |

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| Hydrochloric acid (7647-01-0)             |  |
|---|--|
| IARC group                                | 3 - Not classifiable   |
| Reproductive toxicity                     | : Not classified (Based on available data, the classification criteria are not met)  |
| 1-Pentanol (71-41-0)                      |  |
| NOAEL (animal/male, F0/P)                 | 405 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)    |
| NOAEL (animal/female, F0/P)               | 1521 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) |
| STOT-single exposure                      | : May cause respiratory irritation.  |
| 1-Pentanol (71-41-0)                      |  |
| STOT-single exposure                      | May cause respiratory irritation.  |
| STOT-repeated exposure                    | : Not classified (Based on available data, the classification criteria are not met)  |
| Hydrochloric acid (7647-01-0)             |  |
| LOAEC (inhalation, rat, gas, 90 days)     | 50 ppm   |
| NOAEC (inhalation, rat, gas, 90 days)     | 20 ppm   |
| Aspiration hazard                         | : Not classified (Based on available data, the classification criteria are not met)  |
| 1-Pentanol (71-41-0)                      |  |
| Viscosity, kinematic                      | 4.25 mm <sup>2</sup> /s (25 °C, Calculated)  |
| Hydrochloric acid (7647-01-0)             |  |
| Viscosity, kinematic                      | 1.491 – 1.754 mm <sup>2</sup> /s   |
| 4-(Dimethylamino) benzaldehyde (100-10-7) |  |
| Viscosity, kinematic                      | Not applicable (solid)   |

### Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| 1-Pentanol (71-41-0)                      |  |
|---|--|
| LC50 - Fish [1]                           | 530 mg/l (96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)  |
| EC50 - Crustacea [1]                      | 341.21 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)                         |
| EC50 72h - Algae [1]                      | > 353 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]                      | 113 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)   |
| 4-(Dimethylamino) benzaldehyde (100-10-7) |  |
| LC50 - Fish [1]                           | 45.7 mg/l (96 h, Pisces, Literature study)   |

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| 4-(Dimethylamino) benzaldehyde (100-10-7) |   |
|---|---|
| EC50 - Crustacea [1]                      | 1.58 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 72h - Algae [1]                      | 72.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| EC50 72h - Algae [2]                      | 41.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| EC50 96h - Algae [1]                      | 92.705 mg/l Source: ECOSAR  |
| ErC50 algae                               | 72.7 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)                  |

### 12.2. Persistence and degradability

| Soleris® Confirmation Kit, Kovac's Reagent |                                     |
|--|-------------------------------------|
| Persistence and degradability              | Not rapidly degradable              |
| 1-Pentanol (71-41-0)                       |                                     |
| Persistence and degradability              | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD)            | 1.28 g O <sub>2</sub> /g substance  |
| ThOD                                       | 2.73 g O <sub>2</sub> /g substance  |
| Hydrochloric acid (7647-01-0)              |                                     |
| Persistence and degradability              | Biodegradability: not applicable.   |
| 4-(Dimethylamino) benzaldehyde (100-10-7)  |                                     |
| Persistence and degradability              | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| 1-Pentanol (71-41-0)                            |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 1.51 (Experimental value, 25 °C)   |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).   |
| Hydrochloric acid (7647-01-0)                   |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.25 Source: ICSC  |
| Bioaccumulative potential                       | Does not contain bioaccumulative component(s).   |
| 4-(Dimethylamino) benzaldehyde (100-10-7)       |  |
| Partition coefficient n-octanol/water (Log Pow) | 1.8 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C) |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).   |

### 12.4. Mobility in soil

| 1-Pentanol (71-41-0)                                       |   |
|--|---|
| Mobility in soil   | 160 Source: National Library of Medicine/Hazardous Substances Data Bank |
| Surface tension  | 26 mN/m (20 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.8 (log Koc, SRC PCKOCWIN v2.0, QSAR)                                  |
| Ecology - soil   | Highly mobile in soil.  |

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| Hydrochloric acid (7647-01-0)                              |  |
|--|--|
| Ecology - soil   | No (test)data on mobility of the component(s) available. May be harmful to plant growth, blooming and fruit formation. |
| 4-(Dimethylamino) benzaldehyde (100-10-7)                  |  |
| Surface tension  | 65 mN/m (20 °C, 0.38 %, OECD 115: Surface Tension of Aqueous Solutions)  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1 – 1.632 (log Koc, SRC PCKOCWIN v2.0, Calculated value)   |
| Ecology - soil   | Highly mobile in soil.   |

### 12.5. Results of PBT and vPvB assessment

| Component                                 |   |
|---|---|
| 1-Pentanol (71-41-0)                      | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| 4-(Dimethylamino) benzaldehyde (100-10-7) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |

### 12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

HP Code : HP3 - "Flammable:"  
– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;  
– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;  
– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;  
– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;  
– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;  
– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.  
HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.  
HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.  
HP8 - "Corrosive:" waste which on application can cause skin corrosion.  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR             | IMDG    | IATA    | ADN     | RID     |
|-----------------|---------|---------|---------|---------|
| 14.1. UN number |         |         |         |         |
| UN 2924         | UN 2924 | UN 2924 | UN 2924 | UN 2924 |

# Soleris® Confirmation Kit, Kovac's Reagent



## Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| <b>14.2. UN proper shipping name</b>   |   |   |   |   |
| FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid)                            | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid)                     | Flammable liquid, corrosive, n.o.s. (1-Pentanol, Hydrochloric acid)                     | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid)                     | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid)                     |
| <b>Transport document description</b>  |   |   |   |   |
| UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid), 3 (8), III, (D/E) | UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid), 3 (8), III | UN 2924 Flammable liquid, corrosive, n.o.s. (1-Pentanol, Hydrochloric acid), 3 (8), III | UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid), 3 (8), III | UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (1-Pentanol, Hydrochloric acid), 3 (8), III |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |   |
| 3 (8)  | 3 (8)   | 3 (8)   | 3 (8)   | 3 (8)   |
|  |   |   |   |   |
| <b>14.4. Packing group</b>   |   |   |   |   |
| III  | III   | III   | III   | III   |
| <b>14.5. Environmental hazards</b>   |   |   |   |   |
| Dangerous for the environment: No  | Dangerous for the environment: No<br>Marine pollutant: No                               | Dangerous for the environment: No   | Dangerous for the environment: No   | Dangerous for the environment: No   |
| No supplementary information available   |   |   |   |   |

### 14.6. Special precautions for user

#### Overland transport

|   |  |
|---|--|
| Classification code (ADR)                                 | : FC   |
| Special provisions (ADR)                                  | : 274  |
| Limited quantities (ADR)                                  | : 5I   |
| Excepted quantities (ADR)                                 | : E1   |
| Packing instructions (ADR)                                | : P001, IBC03, R001  |
| Mixed packing provisions (ADR)                            | : MP19   |
| Portable tank and bulk container instructions (ADR)       | : T7   |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP28  |
| Tank code (ADR)   | : L4BN   |
| Vehicle for tank carriage                                 | : FL   |
| Transport category (ADR)                                  | : 3  |
| Special provisions for carriage - Packages (ADR)          | : V12  |
| Special provisions for carriage - Operation (ADR)         | : S2   |
| Hazard identification number (Kemler No.)                 | : 38   |
| Orange plates   | : <br> |
| Tunnel restriction code (ADR)                             | : D/E  |
| EAC code  | : •3W  |
| APP code  | : A(fl)  |

#### Transport by sea

|                           |            |
|---------------------------|------------|
| Special provisions (IMDG) | : 223, 274 |
| Limited quantities (IMDG) | : 5 L      |

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According to REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

|                                    |  |
|------------------------------------|--|
| Excepted quantities (IMDG)         | : E1   |
| Packing instructions (IMDG)        | : P001   |
| IBC packing instructions (IMDG)    | : IBC03  |
| Tank instructions (IMDG)           | : T7   |
| Tank special provisions (IMDG)     | : TP1, TP28  |
| EmS-No. (Fire)                     | : F-E  |
| EmS-No. (Spillage)                 | : S-C  |
| Stowage category (IMDG)            | : A  |
| Stowage and handling (IMDG)        | : SW2  |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. |

### Air transport

|  |            |
|--|------------|
| PCA Excepted quantities (IATA)               | : E1       |
| PCA Limited quantities (IATA)                | : Y342     |
| PCA limited quantity max net quantity (IATA) | : 1L       |
| PCA packing instructions (IATA)              | : 354      |
| PCA max net quantity (IATA)                  | : 5L       |
| CAO packing instructions (IATA)              | : 365      |
| CAO max net quantity (IATA)                  | : 60L      |
| Special provisions (IATA)                    | : A3, A803 |
| ERG code (IATA)                              | : 3C       |

### Inland waterway transport

|                                   |                 |
|-----------------------------------|-----------------|
| Classification code (ADN)         | : FC            |
| Special provisions (ADN)          | : 274           |
| Limited quantities (ADN)          | : 5 L           |
| Excepted quantities (ADN)         | : E1            |
| Carriage permitted (ADN)          | : T             |
| Equipment required (ADN)          | : PP, EP, EX, A |
| Ventilation (ADN)                 | : VE01          |
| Number of blue cones/lights (ADN) | : 0             |

### Rail transport

|   |                     |
|---|---------------------|
| Classification code (RID)                                 | : FC                |
| Special provisions (RID)                                  | : 274               |
| Limited quantities (RID)                                  | : 5L                |
| Excepted quantities (RID)                                 | : E1                |
| Packing instructions (RID)                                | : P001, IBC03, R001 |
| Mixed packing provisions (RID)                            | : MP19              |
| Portable tank and bulk container instructions (RID)       | : T7                |
| Portable tank and bulk container special provisions (RID) | : TP1, TP28         |
| Tank codes for RID tanks (RID)                            | : L4BN              |
| Transport category (RID)                                  | : 3                 |
| Special provisions for carriage – Packages (RID)          | : W12               |
| Colis express (express parcels) (RID)                     | : CE4               |
| Hazard identification number (RID)                        | : 38                |

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. National regulations

##### UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

##### UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

# Soleris® Confirmation Kit, Kovac's Reagent

## Safety Data Sheet

According to REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

### UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC) above the 0.1% level of disclosure

### GB PIC regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

### POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

### Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

### Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

### Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

### 15.1.2. Other Information

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements:

|  |  |
|--|--|
| Acute Tox. 2<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2   |
| Acute Tox. 3<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3   |
| Acute Tox. 3 (Oral)                    | Acute toxicity (oral), Category 3  |
| Acute Tox. 4 (Dermal)                  | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation)              | Acute toxicity (inhal.), Category 4  |
| Acute Tox. 4 (Oral)                    | Acute toxicity (oral), Category 4  |
| Aquatic Chronic 2                      | Hazardous to the aquatic environment – Chronic Hazard, Category 2                          |
| Eye Dam. 1                             | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                           | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 3                           | Flammable liquids, Category 3  |
| Skin Corr. 1                           | Skin corrosion/irritation, Category 1  |
| Skin Corr. 1B                          | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| Skin Irrit. 2                          | Skin corrosion/irritation, Category 2  |
| STOT SE 3                              | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H226                                   | Flammable liquid and vapour.   |
| H301                                   | Toxic if swallowed.  |
| H302                                   | Harmful if swallowed.  |
| H312                                   | Harmful in contact with skin.  |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H314                                | Causes severe skin burns and eye damage.         |
| H315                                | Causes skin irritation.                          |
| H318                                | Causes serious eye damage.                       |
| H319                                | Causes serious eye irritation.                   |
| H330                                | Fatal if inhaled.                                |
| H331                                | Toxic if inhaled.                                |
| H332                                | Harmful if inhaled.                              |
| H335                                | May cause respiratory irritation.                |
| H411                                | Toxic to aquatic life with long lasting effects. |

Safety Data Sheet (SDS), UK

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.