

# Safety Data Sheet

## 2-Hydroxyethylammonium formate

Revision Date: 12/01/2015

Date Issued: 10/27/2017

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

|                            |                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>        | 2-Hydroxyethylammonium formate                                                                                                                                                                                                                |
| <b>Product code</b>        | IL-0034                                                                                                                                                                                                                                       |
| <b>CAS</b>                 | 53226-35-0                                                                                                                                                                                                                                    |
| <b>REACH No.</b>           | A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. |
| <b>Identified uses</b>     | Laboratory chemicals, Manufacture of substances                                                                                                                                                                                               |
| <b>Supplier</b>            | IoLiTec<br>Ionic Liquids Technologies GmbH<br>Salzstrasse 184<br>D – 74076 Heilbronn<br>Germany                                                                                                                                               |
| <b>Telephone</b>           | +49 (0)7131-89839-0                                                                                                                                                                                                                           |
| <b>Fax</b>                 | +49 (0)7131-89839-109                                                                                                                                                                                                                         |
| <b>Emergency telephone</b> | +49 (0)176-84850874                                                                                                                                                                                                                           |
| <b>Email</b>               | msds@iolitec.de                                                                                                                                                                                                                               |

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Caution! Substance not yet fully tested. Risks cannot be excluded if the product is handled inappropriately. For laboratory use only!

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### Classification (67/548/EEC or 1999/45/EC)

Caution! Substance not yet fully tested. Risks cannot be excluded if the product is handled inappropriately. For laboratory use only!

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Substance not yet fully tested.

#### *Hazard statements*

#### H-phrases

Substance not yet fully tested.

#### *Precautionary statements*

#### P phrases

|                     |                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
| P262:               | Do not get in eyes, on skin, or on clothing                                                                                        |
| P280:               | Wear protective gloves/ protective clothing/ eye protection/ face protection                                                       |
| P305 + P351 + P338: | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. |
| P313:               | Get medical advice/attention                                                                                                       |

#### Labelling (67/548/EEC or 1999/45/EC)

Substance not yet fully tested.

#### Risk phrases

Not fully tested substance.

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### Safety phrases

|             |                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------|
| S: 24/25    | Avoid contact with skin and eyes.                                                             |
| S: 26       | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S: 36/37/39 | Wear suitable protective clothing, gloves and eye/face protection.                            |
| S:28,2      | After contact with skin, wash immediately with plenty of water and liquid soap.               |

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name                | Contents | Health(Class) | Risk(R/No.)                     |
|--------------------------------|----------|---------------|---------------------------------|
| 2-Hydroxyethylammonium formate | >97%     |               | Substance not yet fully tested! |

### 4 FIRST AID MEASURES

|                   |                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>    | Contaminated clothing should be removed and washed before being reused.                                                                                              |
| <b>Inhalation</b> | Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen.                                                        |
| <b>Ingestion</b>  | Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.                                                            |
| <b>Skin</b>       | Wash the skin immediately with soap and water.                                                                                                                       |
| <b>Eyes</b>       | Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse. |

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### 5 FIRE FIGHTING MEASURES

**Extinguishing media**

Use: Water spray, fog or mist. Carbon dioxides (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

**Special fire fighting procedures**

Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

**Unusual fire & explosion hazards**

Fire causes formation of toxic gases.

**Protective measures in fire**

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions during spill**

Wear protective clothing and avoid inhalation of vapor, skin or eye contact.

**Precautions to protect environment**

Avoid washing into water courses. Avoid contaminating public drains or water supply.

**Spill cleanup methods**

Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

### 7 HANDLING AND STORAGE

**Usage precautions**

Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.

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### Storage precautions

Store at moderate temperatures in dry, well ventilated area.

### Storage criteria

Chemical storage.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Liquid.

### Color

Colorless to yellow.

### Odor/taste

No characteristic odor.

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### 10 STABILITY AND REACTIVITY

|                               |                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>              | No particular stability concerns.                                                                                                                      |
| <b>Conditions to avoid</b>    | Avoid contact to strong oxidizers and bases.                                                                                                           |
| <b>Hazardous</b>              |                                                                                                                                                        |
| <b>Decomposition Products</b> | High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Nitrous gases (NO <sub>x</sub> ). |

### 11 TOXICOLOGICAL INFORMATION

|                  |                |
|------------------|----------------|
| <b>Ingestion</b> | not available. |
| <b>Skin</b>      | not available. |
| <b>Eyes</b>      | not available  |

**Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.**

### 12 ECOLOGICAL INFORMATION

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| <b>Environmental hazards</b> | Avoid washing into water courses. Avoid contaminating public drains or water supply. |
|------------------------------|--------------------------------------------------------------------------------------|

### 13 DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal method</b> | Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical. |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

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### 14 TRANSPORT INFORMATION

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| <b>General</b>              | Not classified as dangerous for transport purposes. |
| <b>UN No.</b>               | 0                                                   |
| <b>Road transport notes</b> | Not classified as dangerous for road transport.     |
| <b>Rail transport notes</b> | Not classified as dangerous for rail transport.     |
| <b>Sea transport notes</b>  | Not classified as dangerous for sea transport.      |
| <b>Air transport notes</b>  | Not classified as dangerous for air transport.      |

### 15 REGULATORY INFORMATION

|                         |                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label for supply</b> | Substance not yet fully tested.                                                                                                    |
| <b>P phrases</b>        |                                                                                                                                    |
| P262:                   | Do not get in eyes, on skin, or on clothing                                                                                        |
| P280:                   | Wear protective gloves/ protective clothing/ eye protection/ face protection                                                       |
| P305 + P351 + P338:     | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. |
| P313:                   | Get medical advice/attention                                                                                                       |
| <b>Safety phrases</b>   |                                                                                                                                    |
| S: 24/25                | Avoid contact with skin and eyes.                                                                                                  |
| S: 26                   | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                      |
| S: 36/37/39             | Wear suitable protective clothing, gloves and eye/face protection.                                                                 |

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S:28,2

After contact with skin, wash immediately with plenty of water and liquid soap.

### Country specific information

Germany

WGK: 3

(Self-Classification)

### 16 OTHER INFORMATION

#### DISCLAIMER

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