

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

#### 1.1 Product identifier:

**Trade name:** Formic Acid 25% (Methanoic acid 25%)

**Product number:** 600947

**CAS No.:** 64-18-6

**EINECS:** 200-579-1

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

**Application of the substance / the mixture:** Laboratory, Research or Fabricage.

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

##### *Downstream user*

Identipack B.V.

Tel: (+31) (0)493—672277

Broekstraat 4

Fax: (+31) (0)493—672268

5711 CT Someren

E-mail: info@identipack.com

NETHERLANDS

#### 1.4 Emergency telephone number:

UK Tel: +44 151 951 3317 - Health and Safety Executive (HSE) Chemicals Regulation Directorate (24/7)

Ireland Tel: +353 1 809 2566 - Beaumont Hospital - National Poisons Information Centre (24/7)

(EU Tel: 112)

### SECTION 2: Hazards identification

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

**Classification according to Regulation (EC) nr. 1272/2008:**

Skin corrosion/irritation, Category 1B (**H314**: Causes severe skin burns and eye damage).

Serious eye damage, Category 1 (**H318**: Causes serious eye damage).

#### 2.2 Label elements:

**Labelling according to Regulation (EC) nr. 1272/2008:**

The product is classified and labelled according to the CLP Regulation.

##### Hazard pictograms:



GHS05

**Signal word:** Warning

**Hazard determining components of labelling:** Ammonium Chloride 2,5%

##### Precautionary statements (Prevention):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection .

**Precautionary statements:**

- P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
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/shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3: Composition / information on ingredients

### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture made by the following components with other non-hazardous components.

**Formic Acid:** ~25% by weight

CAS No: 64-18-6 | EC No: 200-579-1

**Water (H<sub>2</sub>O):** ~75% by weight

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

**General information:** Remove contaminated clothing while protecting yourself.

**After inhalation:** Remove the casualty from the hazardous area and take him to the fresh air.

**In case of skin contact:** Rinse the affected skin areas for at least 10 to 20 minutes under running water.

**After eye contact:** Immediately flush eyes with running water for at least 15 minutes, holding eyelids open.

Consult an ophthalmologist immediately

**In case of ingestion:** Have the casualty rinse his or her mouth and spit out the liquid. Immediately have the casualty drink a glass of water in sips. Do not make the casualty vomit.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:**

Water spray, alcohol-resistant foam, dry chemical, or CO<sub>2</sub>.

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

Thermal decomposition can lead to the release of irritating or toxic gases (such as carbon monoxide, CO).

### 5.3 Advice for firefighters:

Substance is incombustible. In case of fire take normal precautions, extinguish fire from a reasonable distance.

**Protective equipment:**

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



## SECTION 6: Accidental release measures

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

Do not breathe vapours. Avoid contact with skin and eyes. Ensure adequate ventilation.

### 6.2 Environmental precautions:

Do not allow to enter drains, sewers, or surface waters

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

Neutralize with a mild base (such as lime or sodium bicarbonate) or absorb with inert liquid-binding material (sand, diatomite) and dispose of according to local regulations

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Work under a fume hood or in well-ventilated areas. Do not eat, drink, or smoke when using this product.

### 7.2 Conditions for safe storage:

Store in original, tightly closed containers in a cool, dry place (recommended temperature 15–25 °C).

Keep away from metals, bases, and strong oxidizing agents

### 7.3 Specific end use(s):

No further relevant information available.

## SECTION 8: Exposure controls / personal protection

**Occupational exposure limit (Formic Acid):** TWA 8 hours = 9 mg/m<sup>3</sup> (5 ppm).

### Personal protective equipment (PPE):

**Eye protection:** Tightly fitting safety goggles or face shield.

**Skin protection:** Nitrile or butyl rubber chemical-resistant gloves, and a lab coat or apron.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination cartridges or type E (acid gas) respirator cartridges.

## SECTION 9: Physical and chemical properties

### Appearance:

### Physical state:

Liquid

### Colour:

Colourless to yellowish

### Odour:

Pungent, stinging

### Boiling point:

~100 °C - 105 °C (depending on exact water ratio)

### pH:

Strongly acidic (< 2)

### Density:

~1.06 g/cm<sup>3</sup>

## SECTION 10: Stability and reactivity

**10.1 Reactivity:** Reacts violently with bases and oxidizing agents. Corrosive to metals (creates flammable hydrogen gas).

**10.2 Chemical stability:** Stable under normal storage conditions

**10.3 Hazardous decomposition products:** Carbon monoxide (CO) upon heating or decomposition.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

**Primary irritant effect:**

**Skin corrosion/irritation:** May cause skin irritation.

**Serious eye damage/irritation:** May cause eye irritation.

**Respiratory or skin sensitisation:** Shall not be classified as a respiratory or skin sensitizing substance.

**Germ cell mutagenicity:** Shall not be classified as mutagenic in germ cells.

**Carcinogenicity:** Shall not be classified as carcinogenic.

**Reproductive toxicity:** Shall not be classified as toxic for reproduction.

**STOT single exposure:** Shall not be classified as STOT from single exposure.

## SECTION 12: Ecological, Disposal, and Transport information

**Transport (ADR/IMDG):** UN 3412, FORMIC ACID, SOLUTION, Class 8, Packing Group II (corrosive liquid).

**Disposal:** Dispose of as hazardous chemical waste in accordance with local, regional, and national regulations.

## SECTION 15: Regulatory information

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

#### General details:

German Water Hazard Class (WGK): WGK Class 1 - low hazard to waters.

EU Regulation (EG) nr. 1272/2008 (CLP) - Annex I

EU Regulation (EG) nr. 1907/2006 (REACH) - Annex XVII

EU Regulation (EU) nr. 453/2010 (REACH)

### 15.2 Chemical safety assessment: No data available.

## SECTION 16: Other information

This Safety Data Sheet (SDS) has been written in accordance with EU legislation.

The information in this SDS is based on our present knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should always consult the most recent version of relevant regulations and any applicable local laws and regulations.

#### Abbreviations and acronyms:

|               |                                                                                                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR:          | Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| CAS:          | Chemical Abstracts Service (division of the American Chemical Society)                                                                                        |
| EINECS:       | European Inventory of Existing Commercial Chemical Substances                                                                                                 |
| GHS:          | Globally Harmonized System of Classification and Labelling of Chemicals                                                                                       |
| PBT:          | Persistent, Bioaccumulative and Toxic                                                                                                                         |
| vPvB:         | very Persistent and very Bioaccumulative                                                                                                                      |
| STOT:         | Specific Target Organ Toxicity                                                                                                                                |
| WGK:          | Wassergefährdungsklasse (German: Water Hazard Class)                                                                                                          |
| Eye Irrit. 2: | Eye Irritation Category 2                                                                                                                                     |
| Acute Tox. 4: | Acute Toxicity Category 4                                                                                                                                     |

#### Sources:

Regulation (EC) nr. 1907/2006 of the European Parliament and of the Council of 18 December 2006, REACH

Regulation (EC) nr. 1272/2008 of the European Parliament and of the Council of 16 December 2008, CLP

GESTIS Substance Database

Globally Harmonized System, GHS

ADR2017