

# Safety Data Sheet [Regulation (EC) No 1907/2006]

## Transportation buffer – Paraformaldehyde 4%

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### SECTION 1. Identification of the substance/mixture and of the company

- 1.1 Product Substance name: Paraformaldehyde, 4%
- 1.2 Relevant identified use: Transportation of : Transportation of human tissue for histological assessment
- 1.3 Supplier corlife oHG, Feodor-Lynen-Str.23, 30625 Hannover, Germany  
Phone +49 511 56353940, email: hello@corlife.eu
- 1.4 EMERGENCY TELEPHONE NUMBER: Poison Information Center North, Germany, Tel: +49 551 19240

### SECTION 2. Hazards identification

- 2.1 Classification of the substance or mixture, Regulation (EC) No 1272/2008:

Hazard categories:

- Respiratory or skin sensitisation:
- Skin Sens. 1
- Germ cell mutagenicity: Muta. 2
- Carcinogenicity: Carc. 1B

Hazard Statements:

- May cause an allergic skin reaction.
- Suspected of causing genetic defects.
- May cause cancer.

- 2.2 Label elements, Regulation (EC) No. 1272/2008:

Hazard components for labelling: “formaldehyde 4 %”

Signal word: Danger

Pictograms:



Hazard statements:

- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.

Precaution statements:

- P201 Obtain special instructions before use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.

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- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P501 Dispose of contents/container to local/regional/national/international regulations. Precautionary statements Restricted to professional users.

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

### SECTION 3. Composition/information on ingredients

3.1 Substances: --

3.2 Mixtures:

- Formaldehyde, 4.0%
- CAS No 50-00-0
- EC No 200-001-8
- Index No 605-001-05
- REACH No: not applicable

### SECTION 4. First aid measures

4.1 Description of first aid measures

- General information: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. First aider: Pay attention to self-protection!
- Following inhalation: If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. Call a physician immediately. As soon as possible glucocorticoid dose aerosol can breathe repeated deep inhalation
- Following skin contact: Take off immediately all contaminated clothing. Call a physician immediately.
- Following eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
- Following ingestion: Call a physician immediately. Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed: No information available.

4.3 Indication of any immediate medical attention and special treatment needed: First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.
- Unsuitable extinguishing media: High power water jet.

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- 5.2 Special hazards arising from the substance or mixture: Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Formaldehyde
- 5.3 Advice for fire-fighters: Wear self-contained breathing apparatus. In case of fire and/or explosion do not inhale smoke.

### SECTION 6: Accidental release measures

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

- Ventilate affected area.
- Avoid contact with skin, eyes and clothes.
- Wear personal protective equipment.
- Get some fresh air. Consult a physician.

#### 6.2 Environmental precautions: Do not discharge into the drains/surface waters/ground water

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

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.
- The contaminated area should be cleaned up immediately with: a concentrated aqueous sodium bisulfite solution. Rinse with water.

#### 6.4 Reference to other sections:

- Safe handling: Section 7
- Personal protective equipment: Section 8
- Disposal: Section 13
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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling: Technical ventilation of workplace. Use extractor hood (laboratory). Wear suitable protective clothing. Avoid exposure - obtain special instructions before use. Avoid contact with skin, eyes and clothes.
- Fire preventions: No special protective measures
- Aerosol and dust generation preventions: No special protective measures
- Environmental precautions: No special protective measures
- Advice on general occupational hygiene: No special protective measures

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

- Technical measures and storage conditions: Do not store together with: Explosives. Gas. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Ammonium nitrate.

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Combustible toxic substances. Non-combustible toxic substances. Radioactive substances. Infectious substances.

- Requirements for storage rooms and vessels: Keep container tightly closed and in a well-ventilated place. Keep/Store only in original container. Keep locked up. Ensure adequate ventilation of the storage area.
- Further information on storage conditions: Keep away from food, drink and animal feeding stuffs. Keep the packing dry and well-sealed to prevent contamination and absorption of humidity. Recommended storage temperature: 20°C. Protect against freeze, UV-radiation/sunlight and heat. Store in a suitable, robust cabinet.

7.3 Specific end uses: Transportation of human tissue for histological assessment.

### SECTION 8: Exposure controls/personal protection

8.1 Control parameters, Occupational exposure limits:

- TWA (8h): 2 ppm, 2.5 mg/m<sup>3</sup>
- STEL (15 min): 2 ppm, 2.5 mg/m<sup>3</sup>

8.2 Exposure controls



- Appropriate engineering controls: Use fume cupboard.
- Protective and hygiene measures: Close container tightly after use. When using do not eat, drink or smoke. Wash hands before breaks and after work. Remove contaminated clothing immediately. Wash contaminated clothing prior to re-use. Separate personal protective equipment from personal clothing.
- Eye/face protection: Suitable eye protection: Tightly sealed safety glasses. DIN EN 166
- Hand protection: Use gloves according to EU Directive 89/686/EEC, EN ISO 374 (Chloroprene ≥0.5 mm, Nitrile ≥0.35 mm, FKM ≥0.4 mm, Polyvinylchloride ≥0.5 mm, Butyl ≥0.5 mm). Check integrity before use.
- Skin protection: Personal protective equipment, such as lab coat.
- Respiratory protection is necessary if the concentration is above 2 ppm.

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: colourless
- Odour: Characteristic
- pH-Value (at 20 °C): No information available
- Melting point: No information available
- Initial boiling point and boiling range: No information available

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- Sublimation point: No information available
- Softening point: No information available
- Flash point: No information available
- Sustaining combustion: Not sustaining combustion
- Flammability: No information available
- Explosive properties: No information available
- Lower explosion limits: No information available
- Upper explosion limits: No information available
- Ignition temperature: No information available
- Auto-ignition temperature: No information available
- Decomposition temperature: No information available
- Oxidizing properties: No information available
- Vapour pressure: No information available

9.2 Other information: No data available

### SECTION 10: Stability and reactivity

10.1 Reactivity: No information available.

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: No information available.

10.4 Conditions to avoid: To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials: Materials to avoid: Oxidizing agents, strong. Strong acid. Nitrogen oxides (NO<sub>x</sub>). Nitric acid. Hydrogenium peroxide. Aniline. Performic acid, perchloric acid

10.6 Hazardous decomposition products in case of fire/overheating: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Formaldehyde

### SECTION 11: Toxicological information

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

- Acute toxicity: ATE (oral): 100 mg/kg, ATE (dermal): 300 mg/kg, ATE (vapor inhalation): 3 mg/kg, ATE (aerosol inhalation): 0.5 mg/kg
- Irritation and corrosivity: No information available.
- Sensitising effects: No information available.
- Carcinogenic, mutagenic, toxic effects for reproduction: Suspected of causing genetic defects.
- STOT-single exposure: No information available.
- STOT-repeated exposure: may cause toxic effects
- Aspiration hazard: No information available.

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### SECTION 12: Ecological information

12.1 Toxicity: Ecological data are not available.

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB assessment: According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6 Other adverse effects: No information available.

Further information: Do not flush into surface water or sanitary sewer system

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Disposal recommendations: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
- List of Wastes Code - residues/unused products: 160506 Laboratory chemicals
- Empty containers: 150110 Waste Packaging
- Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

### SECTION 14: Transport information

#### 14.1 Land transport (ADR/RID)

- UN number: Not restricted
- UN proper shipping name: Not restricted.
- Transport hazard class(es): Not restricted.
- Packing group: Not restricted.

#### 14.2 Inland waterways transport (ADN)

- UN number: Not restricted.
- UN proper shipping name: Not restricted.
- Transport hazard class(es): Not restricted.
- Packing group: Not restricted.

#### 14.3 Marine transport (IMDG)

- UN number: Not restricted.
- UN proper shipping name: Not restricted.
- Transport hazard class(es): Not restricted.
- Packing group: Not restricted.

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### 14.4 Air transport (ICAO-TI/IATA-DGR)

- UN number: Not restricted.
- UN proper shipping name: Not restricted.
- Transport hazard class(es): Not restricted.
- Packing group: Not restricted.

### 14.5 Environmental hazards: ENVIRONMENTALLY HAZARDOUS: no

### 14.6 Special precautions for user: Not restricted.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

- EU regulatory information 2004/42/EC (VOC): No information available.
- Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

### 15.2 Chemical safety assessment: For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes: --

### 16.2 Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG	International Maritime Code for Dangerous Goods
IATA/ICAO	International Air Transport Association / International Civil Aviation Organization
MARPOL	International Convention for the Prevention of Pollution from Ships
IBC-Code	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk Abbreviations and acronyms
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
CAS	Chemical Abstract Service
EN	European norm
ISO	International Organization for Standardization
DIN	Deutsche Industrie Norm
PBT	Persistent Bioaccumulative and Toxic
vPvB	Very Persistent and very Bio-accumulative