

Formalin F 37/40

Aqueous formaldehyde solution (F 37/40)

UNN0. 2209

IMDG code (page no): 8176-1

IMCO class: 8

Formalin is a saturated solution of formaldehyde, water and typically another agent, most commonly methanol.

Chemical specification

| Parameter | Value | Unit |
|------------------------|--------------|-------------|
| Formaldehyde | 37 min | Wt% |
| Methanol | 0.5 - 9 | Wt% |
| Acidity as formic acid | 0.03 (max) | Wt% |
| Water | By balance | Wt% |

Physical properties

| Parameter | Value | Unit |
|--|---------------------------|--------------------|
| State | clear colourless solution | |
| Odour | pungent | |
| Specific gravity at 20⁰C | 1.09 –1.12 | gm/cm ³ |
| Flash point (closed cup) | 56 (37%) 60 (40%) | ⁰ C |
| pH (20 ⁰C) | 3.5 ± 0.5 | pH units |
| Boiling point | 96 | ⁰ C |

Major application areas

- Preservatives.
- Foundry moulds.
- Organic dyestuff.
- Intermediate chemical for oil field formulations.
- Soil disinfection chemicals.
- Raw material for insulation / fiberglass industry.
- Pharmaceuticals.
- Water treatment industry.
- Basic chemical for synthetic resins / moulding compounds / powdered & liquid resins, etc.
- Textile industry.

Packing ,Handling & storage

- Packing** : * 38 liter HDPE drums
* 250 liter HDPE drums
* 1000 liter HDPE drums
* 20.000 – 25.000 liter isothermal tank containers
- Handling** : Use of approved respiratory systems, goggles, gloves & suitable clothing is recommended.
- Storage** : Storable under controlled temperature conditions (25 °C – 30 °C) depending on methanol content.
Formalin is stabilized with benzoguanamine (~0.1%) in order to make it possible to store the product at room temperature without forming paraformaldehyde.

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