

Safety data sheet
COMMISSION REGULATION (EU) 2020/878 of 18 June
2020 amending Annex II to Regulation (EC) No
1907/2006

Printing date 12.01.2023

Version number 1

Revision: 12.01.2023

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

- **1.1 Product identifier**
- **Trade name: paraformaldehyde**
- **CAS Number:**
30525-89-4
- **EINECS Number:** 608-494-5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Intermediate
- **1.3 Details of the supplier of the safety data sheet**
Manufacturer/Supplier:
Balaji Formalin Pvt. Ltd
N-32/1, Additional Patalganga MIDC, Panvel, Raigad,
Maharashtra - 410207, India
- **Further information obtainable from:**
T: 7700918328
Website: www.balajiformalin.com
- **1.4 Emergency telephone number:**
EXPORT DEPARTMENT:
+917700918328 / +917700918305

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Sol. 2 H228 Flammable solid.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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Acute Tox. 4 H302 Harmful if swallowed.
 Acute Tox. 4 H332 Harmful if inhaled.
 Skin Irrit. 2 H315 Causes skin irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard statements**

H228 Flammable solid.
 H302+H332 Harmful if swallowed or if inhaled.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see on this label).
 P330 Rinse mouth.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazard description:**

P203 Obtain, read and follow all safety instructions before use.
 P318 if exposed or concerned, get medical advice.

· **2.3 Other hazards**

The component of mixture has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

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- **Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is not vPvB.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixture**
- **Composition of mixture :**

Index number under Regulation (EC) No 1272/2008	CAS No EC no	Name	% Weight	Classification according to Regulation (EC) No 1272/2008	Specific concentration limits/M Factor/AT E
-	30525- 89-4 (690- 727- 5)	Paraformaldehyde	88-97%	Flamm. solid.2 H228 Acute Tox. 4 H302 Acute Tox. 4 H332 Skin Irrit. 2 H315 Eye Dam. 1 H318 Resp. Sens. 1 H334 Skin Sens. 1 H317	-
605-001-00-5	50-00- 0 (200- 001- 8)	Formaldehyde (Reg no: 01-2119488953-20-0286)	>0.1% - <1%	Acute Tox. 3 H301 Acute Tox. 3 H311 Skin Corr. 1B H314 Skin Sens. 1 H317 Acute Tox. 3 H331 Muta. 2 H341 Carc. 1B H350	Eye Irrit. 2; H319: 5 % ≤ C < 25 % STOT SE 3; H335: C ≥ 5 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 5 % ≤ C < 25 % Skin Sens. 1; H317: C ≥ 0,2 %
603-001-00-X	67-56- 1 (200- 659-6)	Methanol (Reg. no-01-2119433307- 44-0304)	<0.8%	Flam. Liq. 2 H225 Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 3 H331 STOT SE 1 H370	STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

First aid personnel should pay attention to their own safety.

Take off contaminated clothing and shoes immediately. Call a physician immediately.

· **After inhalation:**

1. Immediately remove from exposure into fresh air.

2. Keep warm at rest.

3. Seek medical advice immediately.

· **After skin contact:**

1. Remove any contaminated clothing.

2. Wash skin with soap and water for at least 15 minutes.

3. Get medical attention if irritation develops or persists.

4. Wash clothing before reuse.

· **After eye contact:**

Contact Irrigate with eye wash solution or clean water holding the eyelids apart for at least 15 minutes.

Remove contact lenses if present and easy to do.

Call a doctor immediately.

· **After swallowing:**

Call a doctor immediately.

Do not give anything by mouth to an unconscious person.

Do NOT induce vomiting.

· **Information for doctor:** *Treat symptomatically and supportively.*

· 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause irritation to the respiratory tract and to other mucous membranes. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Inhalation may cause lung oedema.

Symptoms/effects after skin contact : Redness. Swelling of the skin. Itching. burning. Drying up of the skin. Skin rash / inflammation.

Symptoms/effects after eye contact : Causes severe burns. Pain. Decrease of vision.

Symptoms/effects after ingestion : Harmful if swallowed. Ingestion may cause nausea and vomiting. Diarrhea.

· 4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required.

Treat symptomatically

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:** *Water Foam Carbon dioxide (CO2) Dry powder*

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- **For safety reasons unsuitable extinguishing agents:** None Known
- **5.2 Special hazards arising from the substance or mixture**
*The presence of paraformaldehyde powder (<200 microns) in air, in concentrations of over 40 g/m³ may be explosive in contact with an ignition source.
 Paraformaldehyde thermal decomposition produces formaldehyde vapours. Mixtures of air/formaldehyde are flammable from 7 to 73 % v/v*
- **5.3 Advice for firefighters**
Self-breathing equipment is recommended in case of important fires, due to the risk of combustion gases (carbon monoxide) and formaldehyde vapours. Ensure that you always have your back to the wind.
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
*Handle in accordance with good industrial hygiene and safety practice.
 Do not eat, drink or smoke when using this product.
 Avoid contact with skin, eyes and clothing. Do not breathe dust.
 Wear protective equipment. Keep unprotected persons away.*
- **6.2 Environmental precautions:**
Prevent product from expanding by the action of wind, by covering it if necessary with a canvas or a plastic sheet. Advise the competent authorities, if downstream waters that water may be contaminated
- **6.3 Methods and material for containment and cleaning up:**
Collect as much product as possible into suitable containers. Cover non-transferable product with a porous, inert material (sand, sawdust, etc.) and transfer it to a closed container. If recycling is not possible, best disposal method is total incineration
- **6.4 Reference to other sections**
*See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.*

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
*Advice on safe handling
 Open and handle container with care.
 Avoid dust formation.
 Ensure good ventilation/exhaustion at the workplace.*
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
Acids. Bases. Amines. Pure oxygen. Oxidizing agent. reducing materials.

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- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Keep only in original container. Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.
- **Information about storage in one common storage facility:** Protect from moisture.
- **Further information about storage conditions:**
Keep container tightly closed. Handle uncleaned empty containers as full ones.
- **7.3 Specific end use(s)** Intermediate Use

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

CAS: 50-00-0 Formaldehyde (<0.1%)

BOELV (EU)	Short-term value: 0.74 mg/m ³ , 0.6 ppm Long-term value: 0.37 (0.62) mg/m ³ , 0.3 (0.5) ppm Skin sens; health/funeral/embalming till 11/7/24
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Wear a respirator conforming to EN140. Dust production: dust mask with filter type P3
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Neoprene. Nitrile- rubber protective gloves. Thickness. > 0.18 mm
- **Penetration time of glove material** > 480 min
- **Eye protection:**



Tightly sealed goggles

Use splash goggles when eye contact due to splashing is possible. Chemical goggles or face shield. EN 166

- **Body protection:** Complete suit protecting against chemicals.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- | | |
|---------------------------|------------------|
| · Appearance: | Solid Prills |
| · Form: | Solid |
| · Colour: | White |
| · Odour: | Pungent |
| · Odour threshold: | 1 ppm gas in air |

- | | |
|--------------------|-----|
| · pH-value: | 5-8 |
|--------------------|-----|

· Change in condition

- | | |
|---|---------------|
| · Melting point/freezing point: | 120-170 °C |
| · Initial boiling point and boiling range: | Undetermined. |

- | | |
|-----------------------|-------|
| · Flash point: | 93 °C |
|-----------------------|-------|

- | | |
|-------------------------------------|--------|
| · Auto-ignition temperature: | 300 °C |
|-------------------------------------|--------|

- | | |
|--------------------------------|---|
| · Explosive properties: | Product does not present an explosion hazard. |
|--------------------------------|---|

· Explosion limits:

- | | |
|-----------------|----------|
| · Lower: | 7 Vol % |
| · Upper: | 73 Vol % |

- | | |
|------------------------------------|----------|
| · Vapour pressure at 20 °C: | 1.2 mmHg |
|------------------------------------|----------|

- | | |
|----------------------------|---------------------------|
| · Density at 20 °C: | 700-850 kg/m ³ |
|----------------------------|---------------------------|

- | | |
|------------------------------------|--------------|
| · Relative density at 20 °C | 1.03 (Air=1) |
|------------------------------------|--------------|

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- | | |
|--|--|
| · Solubility in / Miscibility with water: | Hydrolyses. |
| · Partition coefficient: n-octanol/water: | Not determined. |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
Not reactive under recommended conditions of handling, storage, processing and use.
- **10.2 Chemical stability** Stable at ambient temperature and under normal conditions of use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
It will not happen under normal conditions of storage and use.
- **10.4 Conditions to avoid**
Avoid any source of ignition. Avoid contact with heat, sparks, open flame and static discharge.
- **10.5 Incompatible materials:**
Oxygen. Oxidizing agent. Reducing agents. Acids. Bases. Amines.
- **10.6 Hazardous decomposition products:**
Combustion: carbon monoxide.
Thermal decomposition: formaldehyde gas

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed or if inhaled.

- **LD/LC50 values relevant for classification:**

Oral	LD50	680 mg/kg (rat)
Dermal	LD50	>2000 Mg/kg bw (rat)
Inhalative	LC50	1.1 mg/l (4 Hrs) (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.

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- **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

- **Additional toxicological information:**

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity**

Carcinogenicity: Contains formaldehyde in concentration > 0.1 %. Carcinogenicity: Category 1B: Formaldehyde:

Carcinogenicity: Category 1B: May cause cancer.

Inhalation exposure:

The substance presents carcinogenic activity in laboratory animals. There is clear evidence obtained in chronic inhalation studies in rats where the substance causes tumors of the nasal cavity.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard**

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties: The component of mixture has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

11.2.2 Information on other hazard: No further information is available

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 50-00-0 Formaldehyde

EC50 (48hrs) 5.8 mg/l (*Daphnia pulex* (Water flea))

LC50 (96hrs) 6.7 mg/l (*Morone saxatilis*)

NOEC >48 mg/l (*Oryzias latipes*)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is non vPvB
- **12.6 Endocrine disrupting properties:** The component of mixture has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **12.7 Other adverse effect:** No further information is available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage.
- **Uncleaned packaging:**
- **Recommendation:**
Dispose in a safe manner in accordance with local/national regulations. Empty Containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

- | | |
|---|---|
| 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN2213 |
| 14.2 UN proper shipping name | |
| · ADR | 2213 PARAFORMALDEHYDE |
| · IMDG, IATA | PARAFORMALDEHYDE |
| 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
|  | |
| · Class | 4 .1 Flammable solids, self- reactive substances, polymerizing substances and solid desensitized explosives |
| · Label | 4.1 |
| 14.4 Packing group | |
| · ADR, IMDG, IATA | III |

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· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	
<i>Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives</i>	
· Hazard identification number (Kemler code):	40
· EMS Number:	F-A,S-G
· Stowage Category	A
· Stowage Code	SW 23 When transported in BK 3 bulk container, see 7.6 2.12 and 7.7.3.9.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable.	
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 2213 PARAFORMALDEHYDE, 4.1, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

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· Hazard pictograms

GHS02 GHS05 GHS07 GHS08

· Signal word *Danger***· Hazard statements**

- H228 *Flammable solid.*
 H302+H332 *Harmful if swallowed or if inhaled.*
 H315 *Causes skin irritation.*
 H318 *Causes serious eye damage.*
 H334 *May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
 H317 *May cause an allergic skin reaction.*

· Precautionary statements

- P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
 P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
 P310 *Immediately call a POISON CENTER/doctor.*
 P321 *Specific treatment (see on this label).*
 P330 *Rinse mouth.*
 P362+P364 *Take off contaminated clothing and wash it before reuse.*
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· Chemical safety assessment

- P203 *Obtain, read and follow all safety instructions before use.*
 P318 *if exposed or concerned, get medical advice.*

· Directive 2012/18/EU

- Named dangerous substances - ANNEX I** *Substance is not listed.*

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H301 *Toxic if swallowed.*
 H311 *Toxic in contact with skin.*
 H314 *Causes severe skin burns and eye damage.*
 H317 *May cause an allergic skin reaction.*

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H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

· **Department issuing SDS:** Product safety department.

· **Contact:**

T: 7700918328

Website: www.balajiformalin.com

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

· **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006

- ECHA: <https://echa.europa.eu/substance-information/-/substanceinfo/100.108.270>

- ECHA: <https://echa.europa.eu/substance-information/-/substanceinfo/100.000.002>

- ChemID Plus: <https://chem.nlm.nih.gov/chemidplus/rn/30525-89-4>

- Toxplanet: <https://chemical-search.toxplanet.com//product-search/chemexpert/ei-fts-search/e99ab71c-47b4-48e2-9b23-40f353f1e462>