Safety data sheet

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

Printing date 11.01.2023 Version number 1 Revision: 11.01.2023

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

· **1.1 Product identifier**

· **Trade name: Formaldehyde**
· **CAS Number:**
50-00-0
· **EC number:**
200-001-8
· **Index number:**
605-001-00-5
· **Registration number** 01-2119488953-20-0286
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use**
SU5 Manufacture of textiles, leather, fur.
SU7 Printing and reproduction of recorded media
SU6b Manufacture of pulp, paper and paper products
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU11 Manufacture of rubber products
SU12 Manufacture of plastics products, including compounding and conversion
SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU19 Building and construction work
SU23 Electricity, steam, gas water supply and sewage treatment
Product category
PC1 Adhesives, sealants
· PC8 Biocidal products
· PC9a Coatings and paints, thinners, paint removers
· PC9c Finger paints
PC9b Fillers, putties, plasters, modelling clay
PC13 Fuels
PC15 Non-metal-surface treatment products
PC18 Ink and toners
PC21 Laboratory chemicals
PC23 Leather treatment products
PC31 Polishes and wax blends
PC32 Polymer preparations and compounds
PC34 Textile dyes, and impregnating products
PC37 Water treatment chemicals
PC41: Oil and gas exploration or production products
· **Process category**
· PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
· PROC7 Industrial spraying

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PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing
PROC10 Roller application or brushing
PROC13 Treatment of articles by dipping and pouring
PROC14 Tabletting, compression, extrusion, pelletisation, granulation
PROC16 Use of fuels
PROC19 Manual activities involving hand contact
PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
PROC22 Manufacturing and processing of minerals and/or metals at substantially elevated temperature
PROC25 Other hot work operations with metals

· **Environmental release category**
· ERC2 Formulation into mixture
· ERC3 Formulation into solid matrix
· ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC5 Use at industrial site leading to inclusion into/onto article
· ERC 6a Industrial use resulting in manufacture of another substance (use of intermediates)
· ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)
· ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/ onto article)
· ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
· ERC7 Use of functional fluid at industrial site
· ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
ERC10a Widespread use of articles with low release (outdoor)
ERC10b Widespread use of articles with high or intended release (outdoor)
ERC11a Widespread use of articles with low release (indoor)
ERC12a Processing of articles at industrial sites with low release
ERC12b Processing of articles at industrial sites with high release
ERC12c Use of articles at industrial sites with low release

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· ***Article category***
AC1 Vehicles
AC2a: Machinery, mechanical appliances, electrical/electronic articles covered by the Waste Electrical and Electronic Equipment (WEEE) directive
AC2b: Other machinery, mechanical appliances, electrical/electronic articles
AC4a: Stone, plaster, cement, glass and ceramic articles: Large surface area articles
AC5 Fabrics, textiles and apparel
AC6 Leather articles
AC7 Metal articles
AC8 Paper articles
AC10 Rubber articles
AC11 Wood articles
AC13 Plastic articles

· ***Application of the substance / the mixture***
used for making particle boards, MDF, plywood, laminate sheets and insulation and preservation.
textile binders and paints , solvents , rubber , leather , foams

· ***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

OR details -
Global Product Compliance (Europe) AB,
Ideon Science Park, Scheelevägen 17, Beta 5, 22370 Lund,
Sweden

· ***Further information obtainable from:***
Telephone number: 7700918328
Website: www.balajiformalin.com

· ***1.4 Emergency telephone number:***
EXPORT DEPARTMENT:
+917700918328 / +917700918305
Opening hours:
Other comments (e.g. language(s) of the phone service):

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SECTION 2: Hazards identification

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

skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.

health hazard

Muta. 2 H341 Suspected of causing genetic defects.
Carc. 1B H350 May cause cancer.

corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

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**

GHS05 GHS06 GHS08

· **Signal word** Danger
· **Hazard statements**
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

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H350 May cause cancer.

· **Precautionary statements**
P102: Keep out of reach of children.
P201 Obtain special instructions before use.
P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

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

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**
· **CAS No. Description**
50-00-0 formaldehyde
· **Identification number(s)**
· **EC number:** 200-001-8
· **Index number:** 605-001-00-5
· **Additional information:**
Molecular Formula: C-H2-O
Molecular Weight: 30.03 g/mol

· **Impurities and stabilising additives:**

CAS: 50-00-0 EINECS: 200-001-8	Formaldehyde  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 2, H341; Carc. 1B, H350 Skin Corr. 1B, H314 Skin Sens. 1, H317

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· **SVHC** The substance is not in the SVHC list.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Consult a physician. Show this safety data sheet to the doctor in attendance.
First aid personnel should pay attention to their own safety. I
· **After inhalation:**
Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.
· **After skin contact:**
Take off contaminated clothing and shoes immediately
Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.
· **After eye contact:**
Check and remove contact lenses, if present and easy to do.
Protect unharmed eye.
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
· **After swallowing:**
Never give anything by mouth to an unconscious person.
Do not induce vomiting
seek medical attention.
· **Information for doctor:** Treat symptomatically and supportively.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Use fire-extinguishing media appropriate for surrounding materials.
Water spray
Foam
· **For safety reasons unsuitable extinguishing agents:**
Do not use water jet as an extinguisher, as this will spread the fire.
· **5.2 Special hazards arising from the substance or mixture** carbon oxides
· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self contained breathing apparatus.

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· **Additional information**
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapors, mist or gas.
Do not eat, drink or smoke when using this product.
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/ groundwater.
· **6.3 Methods and material for containment and cleaning up:**
For small amounts: Sweep/shovel up. Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
For large amounts: Sweep/shovel up. Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
· **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**
Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice.
· **Information about fire - and explosion protection:**
Vapours may form explosive mixture with air. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well-ventilated area away from incompatible substances.
Check all containers are clearly labelled and free from leaks.
Keep away from heat, sparks, and flame. Keep away from sources of ignition.
Suitable materials for containers:
Stainless steel 1.4301 (V2),
High density polyethylene (HDPE),
Low density polyethylene (LDPE),
Stainless steel 1.4401,
Aluminum.

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Unsuitable materials for containers: Paper/Fibreboard, board, glass.

· ***Information about storage in one common storage facility:***
It is not necessary to protect the packed product against exceeding the temperature indicated.
Protect from temperatures above: 65 °C
The packed product is not damaged by low temperatures or by frost.

· ***Further information about storage conditions:*** *Storage temperature: 55 °C*

· ***7.3 Specific end use(s)*** *No further relevant information available.*

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:**	
CAS: 50-00-0 Formaldehyde	
BOELV (EU)	Short-term value: 0.74 mg/m³, 0.6 ppm Long-term value: 0.37 (0.62) mg/m³, 0.3 (0.5) ppmSkin sens; health/funeral/embalming till 11/7/24

· ***DNELs***
for WORKERS

INHALATION Exposure
Systemic Effects -
Long-term:(DNEL) 9 mg/m³
Local Effects
Long-term: (DNEL) 375 µg/m³
Acute /short term: (DNEL) 750 µg/m³

DERMAL Exposure
Systemic Effects
Long-term:(DNEL) 240 mg/kg bw/day
Local Effects
Long-term:(DNEL) 37 µg/cm²

for the GENERAL POPULATION
INHALATION Exposure
Systemic Effects
Long-term:(DNEL) 3.2 mg/m³
Local Effects
Long-term:(DNEL) 100 µg/m³

DERMAL Exposure
Systemic Effects

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Long-term:(DNEL) 102 mg/kg bw/day
Local Effects
Long-term:(DNEL) 12 µg/cm²
ORAL Exposure
Systemic Effects
Long-term:(DNEL) 4.1 mg/kg bw/day

· ***PNECs***
Hazard for Aquatic Organisms
Freshwater - No hazard identified
Intermittent releases (freshwater) - No hazard identified
Marine water - No hazard identified
Intermittent releases (marine water) - No hazard identified
Sewage treatment plant (STP) - No emission to STP expected
Sediment (freshwater) - No exposure of sediment expected
Sediment (marine water) - No exposure of sediment expected

· ***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.
Store protective clothing separately.
Avoid contact with the eyes and skin.

· ***Respiratory protection:***
Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for gases/vapours of inorganic compounds (e.g. EN 14387 Type B) Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus.

· ***Protection of hands:***

Protective gloves

Chemical resistant protective gloves (EN 374)

· ***Material of gloves***
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
butyl rubber (butyl) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness

· ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** chemical-protection suit (f.e. according to EN 14605)

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
Appearance:	Liquid
· **Form:**	Liquid
· **Colour:**	Colourless
· **Odour:**	Pungent
· **Odour threshold:**	0.5 to 1 ppm
· **pH-value:**	2.8-4
· **Change in condition**	
Melting point/freezing point:	-92 °C
Initial boiling point and boiling range:	-21 °C
· **Flash point:**	>55 °C
· **Flammability (solid, gas):**	Not flammable
· **Auto-ignition temperature:**	Formaldehyde 395 °C at 1013 hPa Formaldehyde gas 300 °C at 1013 hPa
· **Explosive properties:**	Product does not present an explosion hazard.
· **Density at 20 °C:**	0.815 g/cm³
· **Vapour density at 20 °C**	About ca 1.03-1.067 for gas
· **Solubility in / Miscibility with water at 20 °C:**	550 g/l
· **Partition coefficient: n-octanol/water at 25 °C:**	0.35 log POW
· **Viscosity:**	
Dynamic at 20 °C:	2 mPas
· **9.2 Other information**	surface tension - 27.37 dyne/cm at 25 deg C.

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SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage conditions.
· **10.3 Possibility of hazardous reactions**
The product is stable if stored and handled as prescribed/indicated.
· **10.4 Conditions to avoid**
Avoid contact with incompatible materials.
Avoid all sources of ignition: heat, sparks, open flame.
Corrosive effect on: steel
· **10.5 Incompatible materials:**
Strong oxidizing agents, Strong bases, Strong reducing agents.
· **10.6 Hazardous decomposition products:** Carbon oxides.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Toxic if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**		
Oral	LD50	460 mg/kg bw (rat) (Acute Toxicity: oral)
Inhalative	LC50 (4-hr)	<463 ppm (rat(Wistar)male/female) (Acute Toxicity: inhalation)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
Guideline: OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Species:rabbit (Vienna White)
Irritation parameter: erythema score
score - 2.5
Irritation parameter: edema score
score - 3
result -
A solution of 40% formalin induced full thickness necrosis in 2 rabbits after 20 h occlusive exposure.
· **Serious eye damage/irritation**
Causes severe skin burns and eye damage.
In a reliable study, in vivo, the eyes were exposed to small filter discs soaked with 0, 20, 100, 200 or 300 ppm of formaldehyde in water for 5 min. Eyes were washed with BSS. Gentamycin was applied to the eye two times daily. 1, 3, 7 and 10 days after exposure filter strips were introduced into the rabbit's eye to measure moisture according to the Schirmer's test. In vitro rabbit corneal cell preparations were exposed to aqueous solutions containing 5

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- 600 ppm formaldehyde over 3 - 5 min and cell morphology, death and proliferation were determined as well as changes of mitochondria.

In vivo, tear production was increased at all exposure concentrations and observation times. In vitro, already 5 ppm induced damage to the corneal cells that became apparent only after prolonged observation period. Higher concentrations led to effects already after shorter periods.
These data suggest corrosive properties.

· ***Respiratory or skin sensitisation***
May cause an allergic skin reaction.
In a reliable GLP conform study according to OECD TG 406, formaldehyde was tested for its potential to have a sensitizing effect with the help of the Guinea Pig Maximization Test based on the method of Magnusson and Kligman. Twenty females were induced by intradermal injection and topical application with 5 % formaldehyde solution, 10 female controls were shame treated. Challenge was performed with 2 or 4 % formaldehyde solution.
Controls gave valid results after both concentrations. In test animals 4 % formaldehyde solution resulted in positive reaction in all tested animals and 2 % formaldehyde solution in 80 % positive reactions in the first reading 48 hours after challenge application.
Under these test conditions and following the results described formaldehyde has a sensitizing effect on the skin of the guinea pig.

· ***Additional toxicological information:***

· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***

· ***Germ cell mutagenicity***
Suspected of causing genetic defects.
Genotoxicity in vitro
In the Salmonella microsome assays gene mutations were induced with and without metabolic activation. In mammalian cells, chromosome aberrations were detected independent of the metabolic activation system. There is also some indication for gene mutation in mammalian cells without a metabolic activation system. The DNA-protein cross-linking (DPC) activity which occurred in vivo at the site of first contact has also been demonstrated in in vitro experiments; repair and threshold concentrations have been reported.

Genotoxicity in vitro
Chromosome mutagenic activity of formaldehyde (and to a much lesser extent gene mutations) is well documented from in vitro studies and numerous studies on other endpoints suggested further evidence for genotoxicity of formaldehyde in vitro. DNA-protein cross-links (DPC) as pre-mutagenic lesion have been sufficiently investigated including threshold and repair. The threshold for DPC formation in cultured human lymphocytes is >10 µM (0.3 µg/mL), significant effects were reported at ≥ 25 µM (0.75 µg/mL); DPC induced by concentrations up to 100 µM (3 µg/mL) are completely removed before lymphocytes start to replicate. There is some evidence that clastogenic effects are related to DPC formation.
No co-mutagenicity was observed under simultaneous exposure to formaldehyde and other established mutagens.
Some authors claimed that hematopoetic stem cells are especially sensitive to the

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cytotoxicity of formaldehyde and that formaldehyde leads to aneugenicity in these cells. This could not be verified by independent studies: toxicity of formaldehyde in such stem cells was similar to that to other cell lines and aneuugenicity could not be verified in stem cells or in other cell lines or by gene expression profiling. It has been shown thin studies zsunf an analytical method with very high sensitivity to differentiate between exogenous and endogenous at the effects of formaldehyde depend heavily on the FANCD1 and FANCD2 repair genes that are deficient in Fanconi Anemia patients.

· ***Carcinogenicity***

May cause cancer.

In a reliable study, follow-up of the largest industrial cohort of workers in formaldehyde industries (n ¼ 25,619) by 10 years through 2004 was extended. Standardized mortality ratios (SMRs) and rate ratios (RRs) were calculated for deaths from solid tumors using quantitative formaldehyde exposure estimates.

During 998239 person-years, 13951 deaths occurred. With one additional death, previously observed excesses for nasopharyngeal cancer (n = 10) persisted for peak, average intensity and cumulative exposure; RRs in the highest exposure categories were 7.66 (95 % CI: 0.94, 62.34), P-trend = 0.005, 11.54 (95 % CI: 1.38, 96.81), P-trend = 0.09, and 2.94 (95 % CI: 0.65, 13.28), P-trend = 0.06, respectively. For all cancer, solid tumors and lung cancer, SMRs among exposed workers were elevated, but internal analyses revealed no positive associations with formaldehyde exposure.

Consistent with previous analyses of this cohort, this update continues to suggest a link between formaldehyde exposure and nasopharyngeal cancer.

· ***Reproductive toxicity***

Developmental toxicity

In a study comparable to OECD Guideline 414 (with acceptable restrictions) pregnant Sprague-Dawley rats (25 per dose level) were exposed at gestation day (GD) 6 -15 for 6 h/ day to 0, 2, 5, 10 ppm (Martin, 1990; FCC, 1985). The study was terminated at GD20. Maternal toxicity was detected onlyat 10 ppm (decreased body weight gain and food consumption; no data about irritation). At the 5 and 10 ppm levels, an apparently significant concentration-related decrease in ossification was detected in the bones of the pelvic girdle, but this was associated with larger litter sizes with decreased fetal weights in both these groups. The slightly lower fetal weights were considered to be due to the larger litter sizes. Since noeffects of toxicological relevance were found on parameters of developmental toxicity, the developmental toxicity NOAEC was 10 ppm (Martin, 1990; FCC, 1985). In conclusion, no embryo- or fetotoxic effects were detected in rats at concentrations inducing maternal toxicity.

· ***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 substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100*

11.2.2 Information on other hazard*: No further information is available.*

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
NOEC	1.04 mg/l (Daphnia magna) (Long-term toxicity to aquatic invertebrates)

· **12.2 Persistence and degradability** The product is Readily biodegradable .
· **12.3 Bioaccumulative potential**
Due to the low log Kow of 0.35 no bioaccumulation is expected in aquatic or terrestrial organisms.
· **12.4 Mobility in soil**
Based on the low log Kow of 0.35 the log Koc was calculated by QSAR and according the formular given in ECHAs TGD part 3. The log Koc was < 3 therefore no adsorption to the solid soil phase is expected.
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even extremely small quantities leak into the ground.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** The substance is not PBT.
· **vPvB:** The substance is not vPvB.
12.6 Endocrine disrupting properties: The substance has no endocrine-disrupting propertiesaccording 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**
Incinerate in suitable incineration plant, observing local authority regulations.

· **Uncleaned packaging:**
· **Recommendation:** Dispose of as unused product.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN2209
· **14.2 UN proper shipping name**	
· **ADR**	2209 FORMALDEHYDE SOLUTION
· **IMDG, IATA**	FORMALDEHYDE SOLUTION
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG, IATA**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Corrosive substances.
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Stowage Category**	A
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	E

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· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 2209 FORMALDEHYDE SOLUTION, 8, 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.

· **Hazard pictograms**

GHS05 GHS06 GHS08

· **Signal word** Danger

· **Hazard statements**

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

· **Precautionary statements**

P102: Keep out of reach of children.
P201 Obtain special instructions before use.
P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** Substance is listed.
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials, Annex II:**
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· **Other regulations, limitations and prohibitive regulations**
TSCA – Listed
Canada-DSL/NDSL – Listed
China-NEPA (IECSC) – Listed
Philippines-PICCS – Listed
New Zealand (NZIoC) – Listed
Australia-AICS – Listed
Japan(AJCSD-ASEAN) - Listed
Canada CAREX - Listed
German(GSBL) - Listed
German(UBA - Umweltbundesamt) - Listed
· **Substances of very high concern (SVHC) according to REACH, Article 57**
The substance is not listed as SVHC.
· **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has 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.

· **Department issuing SDS:** Product safety department.
· **Contact:**
Telephone number: 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)

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ICAO: International Civil Aviation Organisation
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
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B

· ***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/registration-dossier/-/registered-dossier/15858/5/5/1
Genium's Handbook of Safety, Health, and Environmental Data for Common Hazardous Substances.
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