



## SAFETY DATA SHEET FORMALDEHYDE SOLUTION

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

#### 1.1. Product identifier

Product name	FORMALDEHYDE SOLUTION
Product number	11297
Synonyms; trade names	FORMALDEHYDE 37/8 S, FORMALDEHYDE 37% (8% METHANOL), FORMALIN, METHANAL, FORMALDEHYDE/METHANOL 40/10, FORMALDEHYDE 36.6/7.3WW 40%WV, FORMALDEHYDE 30%, FORMALDEHYDE 36%, GENFOR 37, FORMALDEHYDE 37% SOLUTION, POLIFOR 37 D

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

Identified uses	Chemical Intermediate Chemical Intermediate Polymerisation Initiator
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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#### 1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	11297

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 2 - H371 STOT SE 3 - H335
Environmental hazards	Not Classified

#### 2.2. Label elements

##### Hazard pictograms



Signal word

Danger

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<b>Hazard statements</b>	<p>H301+H311 Toxic if swallowed or in contact with skin.  H330 Fatal 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.  H371 May cause damage to organs .  H335 May cause respiratory irritation.</p>
<b>Precautionary statements</b>	<p>P202 Do not handle until all safety precautions have been read and understood.  P260 Do not breathe vapour/ spray.  P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Supplemental label information</b>	RCH002a Restricted to professional users.
<b>Contains</b>	FORMALDEHYDE ...%, METHANOL

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>FORMALDEHYDE ...%</b>	<b>30-60%</b>
CAS number: 50-00-0	EC number: 200-001-8
REACH registration number: 01-2119488953-20-XXXX	
<b>Classification</b>	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 2 - H330	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 1B - H350	
STOT SE 3 - H335	
<b>METHANOL</b>	<b>5-10%</b>
CAS number: 67-56-1	EC number: 200-659-6
REACH registration number: 01-2119433307-44-XXXX	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
STOT SE 1 - H370	

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The full text for all hazard statements is displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention.
<b>Ingestion</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	Suspected of causing genetic defects. May cause cancer. May cause damage to organs .
<b>Inhalation</b>	Fatal if inhaled. May cause an asthma-like shortness of breath. May cause respiratory irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Harmful in contact with skin. May cause an allergic skin reaction. Prolonged contact may cause redness, irritation and dry skin. Causes severe burns.
<b>Eye contact</b>	Causes severe burns.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Oxides of the following substances: Carbon.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

#### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Protect against direct sunlight.

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

**Storage precautions** Store in tightly-closed, original container in a well-ventilated place. Store at temperatures between 0°C and 20°C. Store away from the following materials: Organic peroxides/hydroperoxides. Flammable/combustible materials. Oxidising agents.

**Storage class** Corrosive storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **FORMALDEHYDE ...%**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m<sup>3</sup>

#### **METHANOL**

Sk

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk = Can be absorbed through the skin.

WEL = Workplace Exposure Limit.

#### **FORMALDEHYDE ...% (CAS: 50-00-0)**

#### **DNEL**

Workers - Dermal; Long term systemic effects: 240 mg/kg/day

Workers - Inhalation; Long term systemic effects: 9 mg/m<sup>3</sup>

Workers - Inhalation; Short term local effects: 0.75 mg/m<sup>3</sup>

Workers - Inhalation; Long term local effects: 0.375 mg/m<sup>3</sup>

Workers - Dermal; Long term local effects: 0.037 mg/m<sup>3</sup>

Consumer - Inhalation; Long term local effects: 0.1 mg/m<sup>3</sup>

Consumer - Dermal; Long term systemic effects: 102 mg/kg/day

Consumer - Dermal; Long term local effects: 0.012 mg/m<sup>3</sup>

Consumer - Oral; Long term systemic effects: 4.1 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 3.2 mg/m<sup>3</sup>

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<b>PNEC</b>	- Fresh water; 0.47 mg/l
	- marine water; 0.47 mg/l
	- Intermittent release; 4.7 mg/l
	- Sediment; 2.44 mg/kg
	- Sediment (Marinewater); 2.44 mg/kg
	- Soil; 0.21 mg/kg
	- STP; 0.19 mg/l

### METHANOL (CAS: 67-56-1)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 130 mg/m <sup>3</sup>
	Workers - Inhalation; Short term systemic effects: 130 mg/m <sup>3</sup>
	Workers - Inhalation; Long term local effects: 130 mg/m <sup>3</sup>
	Workers - Inhalation; Short term local effects: 130 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 20 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 20 mg/kg/day
	General population - Inhalation; Long term systemic effects: 26 mg/m <sup>3</sup>
	General population - Inhalation; Short term systemic effects: 26 mg/m <sup>3</sup>
	General population - Inhalation; Long term local effects: 26 mg/m <sup>3</sup>
	General population - Inhalation; Short term local effects: 26 mg/m <sup>3</sup>
	General population - Dermal; Long term systemic effects: 5 mg/kg/day
	General population - Dermal; Short term systemic effects: 5 mg/kg/day
	General population - Oral; Long term systemic effects: 5 mg/kg/day
	General population - Oral; Short term systemic effects: 5 mg/kg/day

<b>DMEL</b>	Workers - Dermal; Long term systemic effects: 40 mg/kg/day
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<b>PNEC</b>	- Fresh water; 20.8 mg/l
	- marine water; 2.08 mg/l
	- Intermittent release; 1540 mg/l
	- STP; 100 mg/l
	- Sediment (Freshwater); 77 mg/kg
	- Sediment (Marinewater); 7.7 mg/kg
- Soil; 100 mg/kg	

### 8.2. Exposure controls

#### Protective equipment



#### Eye/face protection

The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least > 8 hours. Nitrile rubber. Thickness: 0.38 mm Butyl rubber. Thickness: 0.3 mm To protect hands from chemicals, gloves should comply with European Standard EN374.

#### Other skin and body protection

Wear rubber apron. Wear rubber footwear.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P3. EN 136/140/141/145/143/149

## SECTION 9: Physical and chemical properties

## FORMALDEHYDE SOLUTION

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>pH</b>	pH (concentrated solution): 2.5 - 4.0
<b>Melting point</b>	< -15°C
<b>Initial boiling point and range</b>	97°C
<b>Flash point</b>	66 - 73°C
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 7.0 % Upper flammable/explosive limit: 72 %
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	1.0 hPa @ 20°C
<b>Vapour density</b>	1.04
<b>Relative density</b>	1.07 - 1.13 @ 50°C
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	log Pow: 0.35
<b>Auto-ignition temperature</b>	380°C
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	1.8 - 2.5 mPa s @ 25°C
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No information available.
<b>Oxidising properties</b>	No information available.

### 9.2. Other information

<b>Other information</b>	Not available.
<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	No information available.
<b>Volatility</b>	No information available.
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not available.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids. Strong alkalis.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of the following substances: Carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 7,000.0

**Species** Rat

**ATE oral (mg/kg)** 204.5

##### Acute toxicity - dermal

**ATE dermal (mg/kg)** 563.56

##### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 100.0

##### Skin corrosion/irritation

**Skin corrosion/irritation** Causes severe burns.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Causes severe burns.

##### Respiratory sensitisation

**Respiratory sensitisation** No information available.

##### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Suspected of causing genetic defects.

##### Carcinogenicity

**Carcinogenicity** May cause cancer.

##### Reproductive toxicity

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**Reproductive toxicity - fertility** No information available.

### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause respiratory irritation. May cause damage to organs .

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

**Aspiration hazard** No information available.

**Inhalation** Fatal if inhaled. May cause respiratory irritation. Vapour may irritate respiratory system/lungs.

**Ingestion** Toxic if swallowed.

**Skin contact** Toxic in contact with skin. Causes severe burns. May cause sensitisation by skin contact.

**Eye contact** Causes severe burns.

### Toxicological information on ingredients.

#### FORMALDEHYDE ...%

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 100.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 800 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 100.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 270.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 270 mg/kg, Dermal, Rabbit

**ATE dermal (mg/kg)** 270.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 460.0

**Species** Rat

**ATE inhalation (gases ppm)** 460.0

##### Skin corrosion/irritation

**Animal data** Corrosive: Rabbit

##### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosive 7 - 9 %, Eyes, Rabbit Not irritating. 2 %, Eyes, Rabbit

##### Skin sensitisation



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<b>Skin sensitisation</b>	Guinea pig: Sensitising.
<b><u>Carcinogenicity</u></b>	
<b>IARC carcinogenicity</b>	IARC Group 1 Carcinogenic to humans.
<b>NTP carcinogenicity</b>	Known human carcinogen.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEC: 10 ppm, Inhalation, Rat
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOAEL 82 mg/kg, Oral, Rat

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<b><u>Acute toxicity - oral</u></b>	
<b>ATE oral (mg/kg)</b>	100.0
<b><u>Acute toxicity - dermal</u></b>	
<b>ATE dermal (mg/kg)</b>	300.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	3.0
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	3.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Not irritating. Rabbit
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating. Rabbit
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. Gene mutation: Negative.
<b>Genotoxicity - in vivo</b>	DNA damage and/or repair: Negative. Mouse
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEL 466 mg/kg/day, Oral, Rat
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No information available.

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**Reproductive toxicity - development** Embryotoxicity: - : , Oral, Mouse Negative. Fetotoxicity: - : , Oral, Mouse Positive.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 1 - H370

**Target organs** Central nervous system Eyes

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** LOAEL 2340 mg/kg, Oral, Monkey NOAEL 1.06 mg/l, Inhalation, Rat 90 days

**Target organs** Eyes Central nervous system

### Aspiration hazard

**Aspiration hazard** No information available.

**Inhalation** Toxic by inhalation. Drowsiness, dizziness, disorientation, vertigo.

**Ingestion** Toxic if swallowed. May cause unconsciousness, blindness and possibly death.

**Skin contact** Toxic in contact with skin.

**Eye contact** May cause temporary eye irritation.

**Target organs** Kidneys Liver Heart & cardiovascular system

**Medical considerations** Liver and/or kidney damage.

## SECTION 12: Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### Ecological information on ingredients.

#### METHANOL

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### Ecological information on ingredients.

#### FORMALDEHYDE ...%

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: <=0.1 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 5.8 mg/l, OECD 202

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 3.48 mg/l, Scenedesmus subspicatus OECD 201

**Acute toxicity - microorganisms** EC<sub>50</sub>, 120 hours: 34.1 mg/l,

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### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 28 days: > 47 mg/l, *Oryzias latipes* (Red killifish)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 6.4 mg/l, *Daphnia magna*  
OECD 211

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### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 15400 mg/l, *Lepomis macrochirus* (Bluegill)  
NOEC, 200 hour: 15800 mg/l, *Oryzias latipes* (Red killifish)  
LC<sub>50</sub>, 96 hour: > 100 mg/l, *Pimephales promelas* (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 10000 mg/l, *Daphnia magna*  
EC<sub>50</sub>, 96 hour: 22200 - 23400 mg/l, Freshwater invertebrates  
*Daphnia obtusa* - Neonate  
EC<sub>50</sub>, 48 hour: 2500 mg/l, Marinewater invertebrates  
*Crangon Crangon* (Common sand shrimp)

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 22000 mg/l, *Selenastrum capricornutum*  
EC<sub>50</sub>, 96 hour: 16.912 mg/l, Marinewater algae  
*Ulva pertusa*  
Chronic, NOEC, 96 hour: 9.96 mg/l, Marinewater algae  
*Ulva pertusa*

**Acute toxicity - microorganisms** IC<sub>50</sub>, 15 hour: 20000 mg/l,  
IC<sub>50</sub>, 3 hour: > 1000 mg/l,

### 12.2. Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

**Chemical oxygen demand** 1.06 g O<sub>2</sub>/g substance

### Ecological information on ingredients.

#### FORMALDEHYDE ...%

**Persistence and degradability** The product is biodegradable.

**Biodegradation** - Degradation (%) 90: 28 days

#### METHANOL

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** Water - Degradation (%) 71.5: 5 days  
Water - Degradation (%) 95: 20 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** log Pow: 0.35

### Ecological information on ingredients.

#### FORMALDEHYDE ...%

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**Bioaccumulative potential** The product is not bioaccumulating. BCF: < 1,  
**Partition coefficient** log Kow: -0.78

### METHANOL

**Bioaccumulative potential** The product is not bioaccumulating. BCF: < 10, Leuciscus idus (Golden orfe)  
**Partition coefficient** log Pow: -0.82 / -0.66

#### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

#### Ecological information on ingredients.

### FORMALDEHYDE ...%

**Mobility** No data available.

### METHANOL

**Mobility** The product is soluble in water.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

### METHANOL

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** No information required.

#### Ecological information on ingredients.

### METHANOL

**Cod** 1.42

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** Wear protective clothing as described in Section 8 of this safety data sheet.

### 14.1. UN number

**UN No. (ADR/RID)** 2209

**UN No. (IMDG)** 2209

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UN No. (ICAO) 2209

UN No. (ADN) 2209

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) FORMALDEHYDE SOLUTION

Proper shipping name (IMDG) FORMALDEHYDE SOLUTION

Proper shipping name (ICAO) FORMALDEHYDE SOLUTION

Proper shipping name (ADN) FORMALDEHYDE SOLUTION

### 14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 3

Emergency Action Code •2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

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### SECTION 15: Regulatory information

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

##### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

This product may impact SEVESO storage regulations.

##### Restrictions (Annex XVII Regulation 1907/2006)

This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3 Entry number: 28 Entry number: 69 Entry number: 72

##### Seveso Directive - Control of major accident hazards H2 4120.2 1436

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### Canada - DSL/NDSL

All the ingredients are listed or exempt.

##### US - TSCA

All the ingredients are listed or exempt.

##### Australia - AICS

All the ingredients are listed or exempt.

##### Korea - KECI

All the ingredients are listed or exempt.

##### China - IECSC

All the ingredients are listed or exempt.

##### Philippines – PICCS

All the ingredients are listed or exempt.

##### New Zealand - NZIOC

All the ingredients are listed or exempt.

### SECTION 16: Other information

## FORMALDEHYDE SOLUTION

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>cATpE: Converted Acute Toxicity Point Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>DMEL: Derived Minimal Effect Level.</p> <p>EL50: Exposure Limit 50</p> <p>hPa: Hectopascal</p> <p>LL50: Lethal Loading fifty</p> <p>OECD: Organisation for Economic Co-operation and Development</p> <p>POW: Octanol-water partition coefficient</p> <p>SCBA: self-contained breathing apparatus</p> <p>STP: Sewage Treatment Plant</p> <p>VOC: Volatile Organic Compounds</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity</p> <p>Aquatic Acute = Hazardous to the aquatic environment (acute)</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
<b>Key literature references and sources for data</b>	<p>Supplier's information.</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Acute Tox. 3 - H301: Calculation method. Acute Tox. 3 - H311: Calculation method. Skin Corr. 1B - H314: Calculation method. Skin Sens. 1 - H317: Calculation method. Eye Dam. 1 - H318: Calculation method. Acute Tox. 2 - H330: Calculation method. STOT SE 3 - H335: Calculation method. Muta. 2 - H341: Calculation method. Carc. 1B - H350: Calculation method. STOT SE 2 - H371: Calculation method.</p>
<b>Revision comments</b>	<p>NOTE: Lines within the margin indicate significant changes from the previous revision.</p>

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<b>Revision date</b>	04/03/2021
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<b>Supersedes date</b>	08/02/2021
<b>SDS number</b>	10870
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. 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. H318 Causes serious eye damage. H330 Fatal if inhaled. H331 Toxic if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H370 Causes damage to organs . H371 May cause damage to organs .
<b>Signature</b>	Jitendra Panchal

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