



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

FORMALDEHYDE SOLUTION

Hazard statements	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.
Precautionary statements	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.
Supplemental label information	RCH002a Restricted to professional users.
Contains	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

FORMALDEHYDE ...%			30-60%
CAS number: 50-00-0	EC number: 200-001-8	REACH registration number: 01-2119488953-20-XXXX	
Classification 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			
METHANOL			5-10%
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX	
Classification 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

Inhalation	Move affected person to fresh air at once. Get medical attention.
Ingestion	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.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention.
Eye contact	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

General information	Suspected of causing genetic defects. May cause cancer. May cause damage to organs .
Inhalation	Fatal if inhaled. May cause an asthma-like shortness of breath. May cause respiratory irritation.
Ingestion	Harmful if swallowed.
Skin contact	Harmful in contact with skin. May cause an allergic skin reaction. Prolonged contact may cause redness, irritation and dry skin. Causes severe burns.
Eye contact	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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	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.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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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.
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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/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

METHANOL

Sk

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

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/m³

Workers - Inhalation; Short term local effects: 0.75 mg/m³

Workers - Inhalation; Long term local effects: 0.375 mg/m³

Workers - Dermal; Long term local effects: 0.037 mg/m³

Consumer - Inhalation; Long term local effects: 0.1 mg/m³

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

Consumer - Dermal; Long term local effects: 0.012 mg/m³

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

Consumer - Inhalation; Long term systemic effects: 3.2 mg/m³

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PNEC

- 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)

DNEL

Workers - Inhalation; Long term systemic effects: 130 mg/m³
 Workers - Inhalation; Short term systemic effects: 130 mg/m³
 Workers - Inhalation; Long term local effects: 130 mg/m³
 Workers - Inhalation; Short term local effects: 130 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/kg/day
 General population - Inhalation; Long term systemic effects: 26 mg/m³
 General population - Inhalation; Short term systemic effects: 26 mg/m³
 General population - Inhalation; Long term local effects: 26 mg/m³
 General population - Inhalation; Short term local effects: 26 mg/m³
 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

DMEL

Workers - Dermal; Long term systemic effects: 40 mg/kg/day

PNEC

- 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

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9.1. Information on basic physical and chemical properties

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

9.2. Other information

Other information	Not available.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	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 (LD₅₀ 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 (LD₅₀ mg/kg) 100.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 800 mg/kg, Oral, Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 270.0

Species Rabbit

Notes (dermal LD₅₀) LD₅₀ 270 mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 270.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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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Skin sensitisation Guinea pig: Sensitising.

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Known human carcinogen.

Reproductive toxicity

Reproductive toxicity - development Developmental toxicity: - NOAEC: 10 ppm, Inhalation, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 82 mg/kg, Oral, Rat

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Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 3.0

Species Rat

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Gene mutation: Negative.

Genotoxicity - in vivo DNA damage and/or repair: Negative. Mouse

Carcinogenicity

Carcinogenicity NOAEL 466 mg/kg/day, Oral, Rat

Reproductive toxicity

Reproductive toxicity - fertility 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 LC₅₀, 96 hours: ≤0.1 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5.8 mg/l, OECD 202

Acute toxicity - aquatic plants EC₅₀, 72 hours: 3.48 mg/l, Scenedesmus subspicatus OECD 201

Acute toxicity - microorganisms EC₅₀, 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

METHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
NOEC, 200 hour: 15800 mg/l, Oryzias latipes (Red killifish)
LC₅₀, 96 hour: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 10000 mg/l, Daphnia magna
EC₅₀, 96 hour: 22200 - 23400 mg/l, Freshwater invertebrates
Daphnia obtusa - Neonate
EC₅₀, 48 hour: 2500 mg/l, Marinewater invertebrates
Crangon Crangon (Common sand shrimp)

Acute toxicity - aquatic plants EC₅₀, 96 hours: 22000 mg/l, Selenastrum capricornutum
EC₅₀, 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 IC₅₀, 15 hour: 20000 mg/l,
IC₅₀, 3 hour: > 1000 mg/l,

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

Chemical oxygen demand 1.06 g O₂/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/NDL

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

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

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.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

FORMALDEHYDE SOLUTION

Revision date	04/03/2021
Version number	3.001
Supersedes date	08/02/2021
SDS number	10870
SDS status	Approved.
Hazard statements in full	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 .
Signature	Jitendra Panchal

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.