



SAFETY DATA SHEET

FORMALDEHYDE SOLUTION, ≥10% METHANOL

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

1.1. Product identifier

Product name	FORMALDEHYDE SOLUTION, ≥10% METHANOL
Product number	11733
Synonyms; trade names	N3510, Formaldehyde/ Methanol 50/12.5, FORMALDEHYDE 35/10

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

Identified uses	Chemical Intermediate Chemicals used in the synthesis and / or formulation of industrial products Resin.
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 sds@univar.com +44 1274 267306
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1.4. Emergency telephone number

Emergency Contact Number (Office Hours)	+44 1274 267346
Emergency Contact Number (Outside Office Hours)	+441865 407333
Sds No.	11733

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 1 - H370 STOT SE 3 - H335
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) T; R39/23/24/25, R23/24/25. C; R34. Xi; R37. Carc. Cat. 3 R40. R43

2.2. Label elements

FORMALDEHYDE SOLUTION, ≥10% METHANOL**Pictogram****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.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H370 Causes damage to organs .

Precautionary statements

P201 Obtain special instructions before use.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.

Contains

FORMALDEHYDE ...%, METHANOL

2.3. Other hazards**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

FORMALDEHYDE ...%	30-60%
CAS number: 50-00-0	EC number: 200-001-8

Classification

Acute Tox. 3 - H301
 Acute Tox. 3 - H311
 Acute Tox. 3 - H331
 Skin Corr. 1B - H314
 Eye Dam. 1 - H318
 Skin Sens. 1 - H317
 Carc. 2 - H351
 STOT SE 3 - H335

Classification (67/548/EEC or 1999/45/EC)

Carc. Cat. 3;R40 T;R23/24/25 C;R34 R43

METHANOL**10-30%**

CAS number: 67-56-1

EC number: 200-659-6

 REACH registration number: 01-
 2119433307-44
Classification

Flam. Liq. 2 - H225
 Acute Tox. 3 - H301
 Acute Tox. 3 - H311
 Acute Tox. 3 - H331
 STOT SE 1 - H370

Classification (67/548/EEC or 1999/45/EC)

F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

FORMALDEHYDE SOLUTION, ≥10% METHANOL

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 immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.
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

Inhalation	Toxic if inhaled. Harmful: possible risk of irreversible effects through inhalation. Coughing, chest tightness, feeling of chest pressure. May cause unconsciousness, blindness and possibly death. Suspected of causing cancer by inhalation.
Ingestion	Toxic if swallowed. Causes burns. Harmful: possible risk of irreversible effects if swallowed.
Skin contact	Toxic in contact with skin. Causes severe burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage. Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.
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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

Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Formaldehyde
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5.3. Advice for firefighters

Protective actions during firefighting	Avoid the spillage or runoff entering drains, sewers or watercourses.
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	Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.
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6.2. Environmental precautions

FORMALDEHYDE SOLUTION, ≥10% METHANOL

Environmental precautions Avoid discharge into water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Keep only in the original container.

Storage class Toxic 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

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

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

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

DNEL

Industry - Inhalation; Short term local effects: 1 mg/m³

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

Industry - Inhalation; Long term systemic effects: 9 mg/m³

Industry - Inhalation; Long term local effects: 0.5 mg/m³

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

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

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

Consumer - Inhalation; Long term local effects: 0.1 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: 260 mg/m³
 Workers - Inhalation; Short term systemic effects: 260 mg/m³
 Workers - Inhalation; Long term local effects: 260 mg/m³
 Workers - Inhalation; Short term local effects: 260 mg/m³
 Workers - Dermal; Long term systemic effects: 40 mg/kg/day
 Workers - Dermal; Long term systemic effects: 40 mg/kg/day
 General population - Inhalation; Long term systemic effects: 50 mg/m³
 General population - Inhalation; Short term systemic effects: 50 mg/m³
 General population - Inhalation; Long term local effects: 50 mg/m³
 General population - Inhalation; Short term local effects: 50 mg/m³
 General population - Dermal; Long term systemic effects: 8 mg/kg/day
 General population - Dermal; Short term systemic effects: 8 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; 3.18 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Wear protective gloves. EN 374 e.g. Butyl rubber. Nitrile rubber.

Other skin and body protection

Wear rubber apron. Wear rubber footwear. Wear chemical protective suit. AVOID ALL SKIN AND RESPIRATORY CONTACT!

Hygiene measures

Provide eyewash station and safety shower. When using do not eat, drink or smoke.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. e.g. Wear self-contained breathing apparatus.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear liquid.

FORMALDEHYDE SOLUTION, ≥10% METHANOL

Colour	Colourless.
Odour	Pungent.
Odour threshold	Not determined.
pH	pH (concentrated solution): 2.5 - 5.5
Melting point	~ -15°C
Initial boiling point and range	96 - 101°C @
Flash point	58 - 70°C CC (Closed cup).
Evaporation rate	Not determined.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	5 mm Hg @ 35°C
Vapour density	Not determined.
Relative density	1.070 - 1.11 @ 20°C
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	300°C
Decomposition Temperature	400°C
Viscosity	1.0 mPa s @ 20°C
Explosive properties	Vapours may form explosive mixtures with air.
Oxidising properties	None

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable at normal ambient temperatures.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	May polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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10.5. Incompatible materials

Materials to avoid	Strong alkalis. Strong oxidising agents.
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FORMALDEHYDE SOLUTION, ≥10% METHANOL

10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Formaldehyde
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other health effects	Carcinogen Category 3.
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Acute toxicity - oral

ATE oral (mg/kg)	162.86644951
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Acute toxicity - dermal

ATE dermal (mg/kg)	488.59934853
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Acute toxicity - inhalation

ATE inhalation (gases ppm)	1,140.06514658
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ATE inhalation (vapours mg/l)	4.88599349
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ATE inhalation (dusts/mists mg/l)	0.81433225
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Skin corrosion/irritation

Extreme pH	Causes burns.
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Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.
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Respiratory sensitisation

Respiratory sensitisation	No specific test data are available.
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Skin sensitisation

Skin sensitisation	May cause sensitisation by skin contact.
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Germ cell mutagenicity

Genotoxicity - in vitro	Conclusive data but not sufficient for classification.
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Carcinogenicity

Carcinogenicity	Suspected of causing cancer by inhalation.
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Reproductive toxicity

Reproductive toxicity - fertility	Conclusive data but not sufficient for classification.
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Specific target organ toxicity - single exposure

STOT - single exposure	Causes damage to organs (Eyes). Blindness. May cause respiratory irritation.
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Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Conclusive data but not sufficient for classification.
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Aspiration hazard

Aspiration hazard	Conclusive data but not sufficient for classification.
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Inhalation	Toxic by inhalation. Harmful: possible risk of irreversible effects through inhalation.
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Ingestion	Toxic if swallowed. Causes burns. Harmful: possible risk of irreversible effects if swallowed.
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FORMALDEHYDE SOLUTION, ≥10% METHANOL

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

Eye contact Causes serious eye damage. Severe irritation, burning and tearing. Causes burns.

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.

12.1. Toxicity

Toxicity The product components are not classified as environmentally hazardous.

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not available.

12.4. Mobility in soil

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.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. 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

14.1. UN number

UN No. (ADR/RID) 2209

UN No. (IMDG) 2209

UN No. (ICAO) 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

FORMALDEHYDE SOLUTION, ≥10% METHANOL

Proper shipping name (ADN) FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID subsidiary risk

ADR/RID label 8

IMDG class 8

IMDG subsidiary risk

ICAO class/division 8

ICAO subsidiary risk

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

14.6. Special precautions for user

EmS F-A, S-B

Emergency Action Code •2X

Hazard Identification Number 80
(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Dangerous Preparations Directive 1999/45/EC.
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).

Guidance CHIP for everyone HSG228.
Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

Water hazard classification Methanol. WGK 1 Formaldehyde WGK 2

FORMALDEHYDE SOLUTION, ≥10% METHANOL**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	09/04/2015
Revision	03
Supersedes date	12/02/2015
SDS number	11733
SDS status	Approved.
Signature	M Dryden
Risk phrases in full	R11 Highly flammable. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R37 Irritating to respiratory system. R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R40 Limited evidence of a carcinogenic effect. R43 May cause sensitisation by skin contact.
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. H331 Toxic if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H370 Causes damage to organs .

TURKISH SIGNATURE