

## SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	Formalin 38:10
Product Code(s)	Not applicable
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified use(s)	Stabilised formalin solution for foot bathing cattle and sheep Product is for professional use only. Must not be used by persons under the age of 18, except when adult supervision is available. Do not mix with other chemical products.
Uses advised against	
<b>1.3 Details of the supplier of the Safety Data Sheet</b>	
Company Identification	Progiene Dairy Hygiene A division of Rumenco, Rumenco Limited, Stretton House, Derby Road, Burton on Trent, Staffordshire DE13 0DW +44 (0) 808 1781010 info@progiene-dairy.com
Telephone	
E-Mail (competent person)	
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 (0) 1634 257150 (09.00 – 17.00 GMT Monday - Friday)

### 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
<b>2.1.1 Regulation (EC) No. 1272/2008 (CLP)</b>	Acute Toxicity (Category 3): Toxic if swallowed; Toxic in contact with skin; Toxic if inhaled. Skin Corrosion (Category 1B): Causes severe skin burns and eye damage. Eye Damage (Category 1): Causes severe eye damage. Skin Sensitivity (Category 1): May cause an allergic skin reaction. STOT SE (Category 3): May cause respiratory irritation. Carcinogen (Category 1B): May cause cancer. Mutagen (Category 2): Suspected of causing genetic defects. STOT SE (Category 2): May cause damage to organs.

## 2.2 Label elements

### 2.2.1 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Hazard Pictograms



Signal word(s)

Danger

Hazard statement(s)

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.  
H331 : Toxic if inhaled.  
H335 ; May cause respiratory irritation  
H341 : Suspected of causing genetic defects.  
H350 : May cause cancer.  
H371 : Causes damage to organs.

Precautionary statement(s)

P102: Keep out of reach of children.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264: Wash skin thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P272: Contaminated workclothes should not be allowed out of the workplace.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
 P310 : Immediately call a POISON CENTER/doctor.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P363: Wash contaminated clothing before reuse.  
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P501: Dispose of contents/container to: hazardous waste site

2.3 Other hazards

Do not mix with other chemical products.

2.4 Additional Information

None

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Formaldehyde	30 - 50	50-00-0	200-001-8	01-2119488953-20	Acute Tox. 3: H301 Acute Tox. 3: H311 Acute Tox. 2: H330 Skin Corr. 1B: H314 Eye Dam. 1: H318 Skin Sens. 1A: H317 STOT SE 3: H335 Muta. 2: H341 Carc. 1B: H350
Methanol	3 - 10	67-56-1	200-659-6	01-2119433307-20	Flam Liq. 2 : H225 Acute Tox. 3: H301 Acute Tox. 3 :H311 Acute Tox. 3 :H 331 STOT SE 1 : H370

#### 3.3 Additional Information

For full text of H/P phrases see section 16.

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation	Remove persons affected by vapour to fresh air. For those providing assistance, avoid exposure to yourself or others. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing is irregular or has stopped, administer artificial respiration.
Skin Contact	Remove contaminated clothing and shoes immediately and wash affected skin with water. Wash contaminated clothing before reuse.
Eye Contact	Eyes should be washed with plenty of water for at least 15 minutes. Get immediate medical attention.
Ingestion	Wash out mouth with water. Do not induce vomiting. Get immediate medical attention.

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

May cause contact dermatitis reaction by skin contact. Can cause skin burns. Severe eye irritation with permanent damage burns to throat, nose and gastrointestinal tract and severe irritation of the respiratory tract.  
Classified as a Category 1B carcinogen under 1272/2008 (CLP).

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

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Suitable Extinguishing Media .  
Extinguish with water spray, dry chemical, foam, alcohol resistant foam or carbon dioxide.

Unsuitable Extinguishing Media  
Straight streams of water

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

Will burn if involved in fire and give off noxious fumes oxides of nitrogen and carbon oxides).

### 5.3 Advice for fire-fighters

Evacuate area. If a leak or a spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop a leak. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Avoid contact with spilled material. Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment.
<b>6.2 Environmental precautions</b>	Do not allow to enter drains, sewers or watercourses.
<b>6.3 Methods and material for containment and cleaning up</b>	Adsorb spillages onto sand, earth or any suitable adsorbent material.
<b>6.4 Reference to other sections</b>	Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.
<b>6.5 Additional Information</b>	None

## 7. SECTION 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	For professional users only. Avoid contact with skin. Avoid breathing fumes. Avoid ingestion. Avoid inhalation of vapours. Use only with adequate ventilation. Keep away from heat and sources of ignition. Keep container tightly closed. Wear protective gloves/clothing and eye/face protection.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
Storage Temperature	Store between 30°C to 60°C to prevent polymerization. Keep out of direct sunlight. Store in a well ventilated place and always secure lid.
Storage Life	1 year.
Incompatible materials	Aniline, phenol, isocyanates, acids, strong bases, strong oxidising agents, metals and peroxides.
<b>7.3 Specific end use(s)</b>	Foot bathing of cattle and sheep.

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Methanol	67-56-1	200	266	250	333	EH40
Formaldehyde	50-00-0	2.0	2.5	2.0	2.5	EH40

#### 8.1.2 Biological limit value

Not established

#### 8.1.3 PNECs and DNELs

Not established

#### 8.2.1 Appropriate engineering controls

Use in well ventilated area. If user operations generate fumes, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep exposure to airborne contaminants below the occupational exposure limits.

#### 8.2.2 Personal protection equipment

Eye/face protection



Wear chemical safety glasses with side shields, or splash-proof goggles.

Skin protection (Hand protection/ Other)



Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet –style gloves. CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

Respiratory protection



If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: Half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations.

Thermal hazards

None Known

#### 8.2.3 Environmental Exposure Controls

See sections 6,7,12,13

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Pungent, irritating, aldehydic.
Odour Threshold (ppm)	No data available
pH (Value)	2.5 - 5.5 (Concentrated product)
Melting Point (°C) / Freezing Point (°C)	-15 (MP approx.) No data FP
Boiling point/boiling range (°C):	96-101
Flash Point (°C)	63-75
Evaporation rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Combustible liquid and vapour
Explosive limit ranges.	Formaldehyde: Lower explosive limit 7%; Upper explosive limit 73%. Methanol: Lower explosive limit 6%; Upper explosive limit 37%.
Vapour Pressure (mm Hg)	4.2 at 35°C
Vapour Density (Air=1)	No data available
Density (g/ml)	1.08-1.16 at 20°C
Solubility (Water)	Miscible in all proportions
Solubility (Other)	Soluble in ethanol, diethyl ether. Low in fatty type solvents.
Partition Coefficient (n-Octanol/water)	0.35 for formaldehyde gas.
Auto Ignition Temperature (°C)	300
Decomposition Temperature (°C)	400
Viscosity (mPa.s)	1.0 at 20°C
Explosive properties	No data available
Oxidising properties	No data available
<b>9.2 Other information</b>	None

## 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Reacts violently with alkalis including alkaline metals and metal powder.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	See 10.5
<b>10.4 Conditions to avoid</b>	Direct sunlight. Heat, flames and other sources of ignition.
<b>10.5 Incompatible materials</b>	The solution may become discoloured on contact with metals and alloys containing zinc, iron, copper and nickel. Aniline, phenol, isocyanates, acids, strong bases, strong oxidising agents and peroxides.
<b>10.6 Hazardous Decomposition Product(s)</b>	Hazardous decomposition products are not expected to form during normal storage.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.2 Mixtures

Acute toxicity	There is no information regarding the mixture but one of the components, formaldehyde, has been assessed as follows: LD50, oral, rat 100 mg/kg LD50, dermal, rabbit 270 mg/kg LD50 Inhalation, rat 203 mg/l
Irritation	Product can cause skin burns.
Corrosivity	Product can cause skin burns.
Sensitisation	Product may cause allergic contact dermatitis by skin contact (type IV immune reaction, acute and chronic skin sensitization). Persons sensitized to formaldehyde should not handle this product.
Repeated dose toxicity	No data available
Carcinogenicity	Product classified as Category 1B Carcinogen under 1272/2008 (CLP). Known human carcinogen.
Mutagenicity	Reason for no classification : Conclusive evidence but not sufficient for classification
Toxicity for reproduction	Reason for no classification : Conclusive but not sufficient for classification.

#### 11.2 Other information

STOT – Single exposure : May cause respiratory irritation. Methanol causes damage to organs. Reason for no classification: conclusive but not sufficient for classification.  
STOT –Repeated Exposure : Reason for no classification ; conclusive but not sufficient for classification.  
Aspiration Hazard : Reason for no classification ; conclusive but not sufficient for classification.



## 12. SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<p>There is no information regarding the mixture but one of the components, Formaldehyde, has been assessed as follows:            LC50 Pimephales promelas, 96h, 24mg/l            LC50 Brachydanio rerio, 96h, 41mg/l            EC50 Daphnia magna, 48h, 2mg/l (Approx)            Bacterial toxicity : EC50 Photobacterium phosphereum, 30 min, 8.5mg/l.            Activated sludge : EC20 Pseudomonas putida, 5h, . 1995mg/l            Formaldehyde exhibits a toxic effect on aquatic organisms but is not officially classified as such. Not acutely toxic to vertebrate animals, but exerts activity against invertebrates e.g. bacteria. Sludge decomposition can be impaired, but the inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentration.</p>
<b>12.2 Persistence and degradability</b>	Readily biodegradable.
<b>12.3 Bioaccumulative potential</b>	Not expected to bioaccumulate. Partirion coefficient (Log KoW) Methanol -0.77, formaldehyde 0.35.
<b>12.4 Mobility in soil</b>	Adsorption to solid soil is not expected. Formaldehyde will not evaporate into the atmosphere from water surfaces.
<b>12.5 Results of PBT and VPVB assessment</b>	No PBT or VPVB Components
<b>12.6 Other adverse effects</b>	None

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	<p>Handle in accordance with good industrial hygiene and safety practice. The product comes under European Waste Codes HE, H8 and H11, therefore waste is considered hazardous waste if it contains &gt;=1% product. Waste European Catalogue Index No 07 01 99, if not mixed with other waste.</p> <p>Disposal is usually carried out by a licensed waste material processor: stack gases may need to be scrubbed.</p> <p>Contaminated packaging should be disposed of as hazardous waste, according to local authority guidelines.</p>
<b>13.2 Additional Information</b>	None

## 14. SECTION 14: TRANSPORT INFORMATION

### 14.1 Land transport (ADR/RID)

UN number	2209
Proper Shipping Name	Formaldéhyde Solution.
Transport hazard class(es)	8
Packing Group	III

Hazard label(s)



Environmental hazards	No
Special precautions for user	None

### 14.2 Sea transport (IMDG)

UN number	2209
Proper Shipping Name	Formaldéhyde Solution.
Transport hazard class(es)	8
Packing Group	III
Marine Pollutant	No
Special precautions for user	None

### 14.3 Air transport (ICAO/IATA)

UN number	2209
Proper Shipping Name	Formaldéhyde Solution.
Transport hazard class(es)	8
Packing Group	III
Environmental hazards	No
Special precautions for user	None

### 14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Category C, IBC Instruction IBC02

## 15. SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture</b>	1907/2006 – REACH 1272/2008 – CLP 648/2004/EC-Detergents Directive Control of Substance Hazardous to Health (COSHH) Dangerous Substances and Explosive Atmosphere regulations (DSEAR)
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### 15.1.1 EU regulations

Authorisations and/or restrictions on use

Refer to EU regulation for details of any actions or restrictions by the above regulations or directives

### 15.1.2 National regulations

Refer to national regulation for details of any actions or restrictions by the above regulations or directives

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this mixture.

## 16. SECTION 16: OTHER INFORMATION

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEL	Predicted No Effect Concentration
RCP	Reciprocal Calculation Procedure
NOEC	No Observed Effect Concentration

**References:** Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate.

### Hazard statement(s) and Precautionary statement(s)

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.

P102: Keep out of reach of children.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271 : Use only outdoors or in a well-ventilated area.

P272: Contaminated workclothes should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P310 : Immediately call a POISON CENTER/doctor.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container to: hazardous waste site.



#### **Additional Information**

Revision 1.2 was issued on 19 December 2017 to incorporate new revised Hazard Statements to comply with the Classification and Labelling of Chemicals (CLP) Regulations (6<sup>th</sup> Adaptation to Technical Progress).

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Progiene Dairy Hygiene, a division of Rumenco Limited, based on information supplied by the formulators of the product and is believed to be accurate and given in good faith, but it is for the users to satisfy themselves of the suitability of the product for their own particular purpose. d5 Consulting Limited and Progiene Dairy Hygiene, a division of Rumenco Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. Progiene Dairy hygiene, Rumenco Limited and d5 Consulting Limited give no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law.