

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

- 1.1 Product identifier**
Product Name Formalin 38:10
Product Code(s) Not applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
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
- 1.3 Details of the supplier of the Safety Data Sheet**
Company Identification Nettex
Units 2A
Hoo Industrial Estate
Hoo
Rochester
Kent
ME3 9LB
United Kingdom
+44 (0) 808 1781010
info@progiene-dairy.com
- Telephone
E-Mail (competent person)
- 1.4 Emergency telephone number**
Emergency Phone No. +44 (0) 1634 257150 (09.00 – 17.00 GMT Monday - Friday)

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Acute Tox. Cat. 3 : H301, H311, H331
Skin Corr. Cat 1B : H314
Skin Sens. Cat 1 : H317
STOT SE 2 : H411
STOT SE 3 : H331
Carc. Cat 2 : H351
- 2.1.2 Directive 67/548/EEC & Directive 1999/45/EC** Toxic : R23/24/25, R34, R40, R43, R68/20.12/22,

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2.2 Label elements



2.2.1 Label elements

Signal word(s)

Hazard statement(s)

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

Danger

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

H351 : Suspected of causing cancer.

H371 : Causes damage to organs.

Precautionary statement(s)

P102: Keep out of reach of children.

P201 : Obtain special instructions before use.

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

P264: Wash skin thoroughly after handling.

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

P273: Avoid release to the environment.

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

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.

P363: Wash contaminated clothing before reuse.

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

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2.2.2 Label elements

According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol



Risk Phrases

R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
R34 : Causes burns.
R40 : Limited evidence of a carcinogenic effect.
R43 : May cause sensitisation by skin contact.
R68/20/21/22 : Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases

S2: Keep out of the reach of children.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: In case of contact with skin wash immediately with plenty of soap and water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S51: Use only in well ventilated areas.
S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Do not mix with other chemical products.

2.3 Other hazards

2.4 Additional Information

None

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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,, H331 Skin Corr. Cat 1B : H311, H314 Skin Sens. Cat 1A : H317 Carc. Cat 2 : H351
Methanol	3-10	67-56-1	200-659-6	01-2119433307-20	Acute Tox. Cat 3 : H301, H311, H 331 Flam Liq. Cat 2 : H225 STOT SE 1 : H370

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Formaldehyde	30-50	50-00-0	200-001-8	01-2119488953-20	T R11, R23/24/25, R34, R40, R43
Methanol	3-10	67-56-1	200-659-6	01-2119433307-20	F, T R11, R23/24/25, R39/23/24/25

3.3 Additional Information

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

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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 2 carcinogen under 1272/2008 (CLP) and as Category 3 under CHIP.
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 (formaldehyde and carbon oxides). Vapour is heavier than air and is an explosion hazard.
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

6.1 Personal precautions, protective equipment and emergency procedures	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.
6.2 Environmental precautions	Do not allow to enter drains, sewers or watercourses.
6.3 Methods and material for containment and cleaning up	Adsorb spillages onto sand, earth or any suitable adsorbent material. Neutralise to hexamine if necessary with %5 ammonia.
6.4 Reference to other sections	Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.
6.5 Additional Information	None

7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** 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.
- 7.2 Conditions for safe storage, including any incompatibilities**
- 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
- 7.3 Specific end use(s)** 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 ³)	STEL (ppm)	STEL (mg/m ³)	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



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Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards

8.2.3 Environmental Exposure Controls

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. Nitrile, CEN standards EN 420 and EN 374 provide general requirements and list of glove types. 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

None Known

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)	2.00 - 5,00 (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.	No data available
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

9.2 Other information

None

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10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Reacts violently with alkalis including alkaline metals and metal powder.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	See 10.5
10.4 Conditions to avoid	Direct sunlight.
10.5 Incompatible materials	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.
10.6 Hazardous Decomposition Product(s)	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 2 Carcinogen under 1272/2008 (CLP) in EU, Mainly on the results of inhalation experiments in animals that led to nasal cancer. However this has not been proven in humans and there appears to be no definite excess of lung cancer. Based on epidemiological evidence, no chronic effects will be produced when working at below the UK WEL, although irritant effects may be experienced.
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 org Reason for no classification ; conclusive but not sufficient for classification., may cause blindness. 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.

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12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	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.
12.2 Persistence and degradability	Readily biodegradable.
12.3 Bioaccumulative potential	Not expected to bioaccumulate. Partirion coefficient (Log KoW) Methanol -0.77, formaldehyde 0.35.
12.4 Mobility in soil	Adsorption to solid soil is not expected. Formaldehyde will not evaporate into the atmosphere from water surfaces.
12.5 Results of PBT and VPVB assessment	No PBT or VPVB Components
12.6 Other adverse effects	None

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	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 >/=1% product. Waste European Catalogue Index No 07 01 99, if not mixed with other waste. Disposal is usually carried out by a licensed waste material processor: stack gases may need to be scrubbed. Contaminated packaging should be disposed of as hazardous waste, according to local authority guidelines.
13.2 Additional Information	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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	1907/2006 – REACH 1272/2008 – CLP 67/548/EEC –DSD 199/45/EC – DPD 648/2004/EC-Detergents Directive (EU) 528/2012) - BPR
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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
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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

Risk Phrases and Safety Phrases

R11: Highly flammable.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R34 : Causes burns.

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.

R68/20/21/22 : Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: In case of contact with skin wash immediately with plenty of soap and water.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S51: Use only in well ventilated areas.

S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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.

H331 : Toxic if inhaled.

H335 ; May cause respiratory irritation

H351 : Suspected of causing cancer.

H370 : Causes damage to organs.

H371 : Causes damage to organs.

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P102: Keep out of reach of children.
P201 : Obtain special instructions before use.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash skin thoroughly after handling.
P271 : Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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.
P363: Wash contaminated clothing before reuse.
P501: Dispose of contents/container to: hazardous waste site

Additional Information

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Nettex, 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 Nettex, a division of Rumenco Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. Nettex, 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.

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