
MATERIAL SAFETY DATA SHEET

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

1.1 Product identifiers

Product name: BUFFERED FORMALIN NEUTRAL 10%
Brand: Solmedia Ltd
Product Codes:

FORM011	FORM0500	FORM5000
FORM012	FORM0750	FORM10L
FORM013	FORM1000	FORM15L
FORM030	FORM1500	FORM20L
FORM0150	FORM2000	FORM25L
FORM0250	FORM2500	

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

Manufacture of substances. Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Solmedia Ltd.
Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
Telephone: 0844 80 80 900
Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone: +44 (0)844 80 80 900

SECTION 2: Hazards identification

Classification under CLP: Regulation (EC) No. 1272/2008 [CLP]

Hazard Class	Hazard Category	Target Organs	Hazard Statement
ACUTE TOX.	Category 4	-	H302
IRRITANT	Category 1	Skin	H317
MUTAGENIC	Category 2	-	H341
CARCINOGENIC	Category 1B	-	H350

Most important adverse effects:

Harmful if swallowed. May cause an allergic skin reaction.
Suspected of causing genetic defects. May cause cancer.

2.2 Label elements

Hazard statements: H302: Harmful if swallowed,
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects
H350: May cause cancer.

Signal words: Danger

Hazard pictograms:

GHS07: Exclamation mark
GHS08: Health hazard



Precautionary statements:

P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell..
P308+313: IF exposed or concerned: Get medical advice/attention.
P332+313: If skin irritation occurs: Get medical advice/attention

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients Classification according to Regulation (EC) No. 1272/2008 [CLP]

		Classification (Regulation (EC) No 1272/2008 [CLP])	
Hazardous Components		Amount [%]	
Name:	Formaldehyde	~4%	Hazard class/ Hazard category
CAS NO.	50-00-0		Hazard Statements
			CARC. CAT. 2.
			ACUTE TOX. CAT. 3.
			H351
			H311

EC-NO.	200-001-8		ACCUTE TOX. CAT. 3.	H331
			SKIN CORR. CAT. 1B.	H314
			SKIN SENS. CAT. 1.	H317
Name:	Deionised H2O	~80-90%	N/A	N/A
CAS NO.	7732-18-5			
EC-NO.	N/A			
Name:	Sodium hydrogen phosphate	<10%	N/A	N/A
CAS NO.	7558-79-4			
EC-NO.	231-448-7			
Name:	Monopotassium Phosphate	<5%	N/A	N/A
CAS NO.	7778-77-0			
EC-NO.	231-913-4			

SECTION 4: First aid measures

4.1 Description of first aid measures

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General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.5 Information to physician

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Water spray. Dry chemical powder. Alcohol resistant foam. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

6.4 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

Handling requirements:

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid breathing vapours, mist or gas. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects.

7.3 Specific end use(s)

No other specific uses stipulated other than the uses mentioned in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients:

FORMALDEHYDE...100%

Workplace exposure limits:

Respirable dust

State	8-hour TWA	15 min STEL	8-hour TWA	15 min STEL
UK	2.5 mg/m ³	2.5 mg/m ³	-	-

DNEL / PNEC No data available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique

(Without touching glove's outer surface) to avoid skin contact with this product. Dispose of

Contaminated gloves after use in accordance with applicable laws and good laboratory practices.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Wash and dry hands.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK

(EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection:



Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Additional Information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Control of environmental exposure

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Liquid	
Colour:	Colourless	
Odour:	Pungent	
Solubility in water:	Soluble	
Boiling point/range°C:	100	Flammability limits %: lower: 7
	upper: 70	Flash point°C: 85
Vapour pressure:	53 hPa at 39C	Relative density: 1.08

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions

10.4 Conditions to avoid

Heat. Flames. Sparks.

10.5 Incompatible materials

Strong bases. Acids. Oxidising agents. Alkali metals. Strong oxidising agents. Amines. Strong acids. Acid chlorides. Acid anhydrides. Reducing agents. Peroxides. Isocyanates. Aniline. Phenol

10.6 Hazardous decomposition products

Other decomposition products - no data available. In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

FORMALDEHYDE...100%

ORL	MUS	LD50	42	mg/kg
ORL	RAT	LD50	100	mg/kg
SCU	RAT	LD50	420	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through the skin. There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely. The vision may become blurred.

Ingestion: May be harmful if swallowed. There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. There may be vomiting. Nausea and stomach pain may occur.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. May cause drowsiness and dizziness.

Delayed / immediate effects:

Delayed effects can be expected after long-term exposure.

Other information: RTECS: Not available. Methyl alcohol may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Effects due to ingestion Include: Nausea, Dizziness, Gastrointestinal disturbances, Weakness, Confusion, Drowsiness, Unconsciousness, and May cause convulsions. Liver - Irregularities - Based on Human Evidence (Formaldehyde).

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Soluble in water

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Disposal of packaging: Dispose of as unused product

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14: Transport information

Transport class: This product does not require a classification for transport

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:

H301: Toxic if swallowed.
H302: Harmful 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 <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.