

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING**

Product Name                      **Ammonium Formate, 2M aqueous solution**

Product Catalogue Name       **LS-N-BUFFX40, LS-N-BUFFX40-30**

Company:                          Ludger Ltd  
   Culham Science Centre  
   Abingdon  
   Oxfordshire  
   OX14 3EB  
Telephone:                        01865 408554  
Emergency Telephone:        01865 408554  
Email:                              info@ludger.com

**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Skin irritation (Category 2)

Eye irritation (Category 2)

**2.2 Label elements**

Signal Word: Warning

**Hazard Statement(s)**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

**Precautionary Statement(s)**

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

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 so. Continue rinsing.

**2.3 Other hazard information:**

None.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: None  
Formula:  $\text{CH}_5\text{NO}_2$

Component		Classification	Concentration
Name	Ammonium Formate	No components need to be	> 10%
CAS-No.	540-69-2	disclosed according to the	
EC-No.	208-753-9	applicable regulations.	
Name	Formic Acid	Skin Irrit.2, Eye Irrit.2 ; H315, H319	<15%
CAS-No.	64-18-6		
EC-No.	200-579-1		
Index-No.	607-001-00-0		
2 <sup>nd</sup> Name	Water	-	>75%
CAS-No.	7732-18-5		
EC-No.	231-791-2		

For the full text of the H-statements mentioned in this section, see Section 16 or 2.

## SECTION 4. FIRST-AID MEASURES

### 4.1 Description of First Aid Measures

#### General Advice

Consult a physician if exposure causes ill effects and if in any doubt. Show this safety data sheet to the physician/ first responder in attendance.

#### If Ingested

Rinse mouth well with water, NEVER give anything by mouth if the person is unconscious. Consult a physician.

#### If the skin is exposed

Wash the area well with plenty of soap and water. Consult a physician.

#### If eyes are exposed

Rinse thoroughly for at least 15 minutes with water or eye wash solution. If present and safe to do so, remove contact lenses and carry on rinsing. Consult a physician.

#### If inhaled

Move the affected person to a source of fresh air/ strong ventilation. If not breathing, give artificial respiration. Consult a physician.

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

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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

No data available.

## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Select extinguishing media appropriate to the surrounding area. Compatible media for use with the product are water spray, alcohol-resistant foam, dry chemicals, or carbon dioxide.

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

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for Firefighters

If necessary, wear self-contained breathing equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid breathing in vapours, mist or gas by ensuring adequate ventilation. Relocate any non-essential staff away from the spillage. For personal protection see section 8.

### 6.2 Environmental Precautions

Do not let the product enter the drainage system.

### 6.3 Methods and material for containment and cleaning up

Contain the spillage with a spill kit, using a spillage mat or an inert material such as vermiculite. Collect the contaminated material and store it in a suitable container with a lid, in a cool, dry well-ventilated area. Arrange disposal.

### 6.4 Reference to other sections

For more information on disposal see Section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and breathing in vapours/mist/gas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store the product in a dry, cool cabinet/cupboard, not in direct sunlight.

### 7.3 Specific end uses

No data available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

This product contains no substances with occupational exposure limits values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Wear PPE (Personal Protective Equipment) and wash/dry hands before and after handling the product, avoid contact with skin and eyes. Handle the product following good laboratory and hygiene practices.

#### Personal Protective Equipment

##### Eye/face protection

Wear Safety glasses/ goggles with side shields, which conform to EN 166. Equipment used must conform

to an appropriated and approved government standard such as NIOSH (US) or EN 166 (EU).

**Skin protection**

Handle the product wearing gloves; these are to be inspected before use. Remove used gloves using the proper removal technique so the skin does not touch the outer layer of the gloves. Dispose of used gloves as contaminated solid waste; see section 13 for more information. Wash and dry hands.

Gloves must satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it.

**Body Protection**

Wear a laboratory coat or a similar covering over clothing.

**Respiratory protection**

No data available.

**Thermal hazards**

No data available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	Form: clear, liquid Colour: Colourless
Odour	No data available
Odour threshold	No data available
pH	4.4 at 22°C
Freezing/Melting Point	No data available
Initial boiling point and boiling range	No data available
Flash Point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour Pressure	No data available
Vapour density	No data available
Relative Density	No data available
Solubility in water and solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

**9.2 Other information**

No data available

**SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of Hazardous Reactions**

No data available

**10.4 Conditions to Avoid**

No data available

**10.5 Incompatible materials**

Strong oxidizing agents, Strong acids.

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)  
Other decomposition products - No data available In the event of fire: see section 5

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

No data available.

**Skin corrosion/irritation**

No data available.

**Serious eye damage/irritation**

No data available.

**Respiratory or skin sensitisation**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard.**

No data available.

**Potential Health Hazards****Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion**

May be harmful if swallowed. Causes burns.

**Skin**

May be harmful if absorbed through the skin. Causes skin irritation and burns.

**Eyes**

Causes serious eye irritation.

**Signs and symptoms of exposure**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**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**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste Treatment Methods**

Use a licensed chemical waste (solid and chemical) disposal company.

**Contaminated packaging**

Treat as unused product, solid chemical waste.

**SECTION 14. TRANSPORT INFORMATION****14.1 UN Number**

ADR/RID: -

IMDG: -

IATA: -

**14.2 UN Proper Shipping Name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4 Packing group**

ADR/RID: -

IMDG: -

IATA: -

**14.5 Environmental hazards**

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

**14.6 Special precautions for user**

No data available

**SECTION 15. REGULATORY INFORMATION**

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

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

No data available

**15.2 Chemical Safety Assessment**

No data available

Please note that the label elements that used to go in Section 15 are now in Section 2.

**SECTION 16. OTHER INFORMATION**

The advice offered is derived from the currently available information on the hazardous materials in this product and its component(s). Consideration has been made regarding the quantities offered in the pre-dispensed container. The advice offered is, therefore not all-inclusive nor should it be taken as the descriptive of the compound generally.

Skin irritation (Category 2)

Eye irritation (Category 2)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Text of the H-codes mentioned in Section 3.