

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

Product Name **Ammonium Formate, pH9 aqueous solution**

Product Catalogue Name **LS-C-BUFFX4**

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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)

Specific target organ toxicity – single exposure (Category 3)

2.2 Label elements

Signal Word: Warning

Hazard Statement(s)

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory 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: CH_5NO_2

Component		Classification	Concentration
Name	Ammonium Formate	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3;	> 17%
CAS-No.	540-69-2	H315, H319, H335	
EC-No.	208-753-9		
Name	Formic Acid	Skin Corr. 1A; H314	<8%
CAS-No.	64-18-6		
EC-No.	200-579-1		
Index-No.	607-001-00-0		
2 nd 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 chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x)

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 PPE (Personal Protective Equipment). Avoid breathing in vapours, mist, or gas by ensuring adequate ventilation. Relocate any non-essential staff away from the spillage.

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 in accordance with 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 89/686/EEC 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	9.0 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

No data available

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

Other decomposition products – No data available.

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% are 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**

Harmful if inhaled. Causes respiratory tract irritation.

Ingestion

Harmful if swallowed. Causes burns.

Skin

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.

Text of the H-codes mentioned in Section 3.

Eye Irrit.	Eye Irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin Irritation.
STOT SE	Specific target organ toxicity – single exposure.