



## MATERIAL SAFETY DATA SHEET:

# ABC pH

Version number: pH2018-01  
 Date of updating: 28-12-2018  
 Date of previous version: -

### 1. Identification of the product and the company.

#### 1.1 Product identifier

Product name: ABC pH  
 Chemical name: N.A.  
 Reach Registration number: N.A.

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

Acidifier for use in feed industry.

#### 1.3 Details of the supplier of the safety data sheet

Supplier: FF Chemicals BV  
 Address: Bloemendaalsezeedijk 10, 4765BP Zevenbergschenhoek, NL  
 Phone numbers: 0031633954055 en 0031655824567  
 Fax: 0031184652569

#### 1.4 Emergency telephone number

Emergency Phone numbers: - Lifethreatening. tel. 112  
 - NVIC (nationaal vergiftigingen informatie centrum) tel. +3130274888 (NL)  
 - Anti-poison centre. tel. +3270245245 (BE)

### 2. Hazard identification

#### 2.1 Classification fo the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008

Hazard: H315; Causes skin irritation.  
 H318; Causes serious eye damage.

#### 2.2 Label elements



Hazard pictograms:

Signal word:

Hazard:

DANGER

H315; Causes skin irritation.

H318; Causes serious eye damage.

Address: Bloemendaalsezeedijk 10-C, 4765BP Zevenbergschenhoek, The Netherlands  
 Tel: +31655824567  
 Fax: +31184659014  
 E-mail: Cornelius@ffchemicals.nl

Precautionary statements: P261; Avoid breathing dust/fume/gas/mist/vapours/spray  
 P271; Use only outdoors or in a well-ventilated area  
 P280; Wear protective gloves/protective clothing/eye protection/face protection  
 P305+P351+P338; IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P312; Call a POISON CENTER or doctor/physician if you feel unwell  
 P304+P340; IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### 2.3 Other hazards

Other hazards: -

## 3. Composition / Information on ingredients

### 3.1 Substance

Name: -  
 Description: -  
 CAS number: -  
 Eines number: -  
 Molecular weight: -

**Further information** None

### 3.2 Mixture

1. 20-50% Formic Acid, CAS Nr.; 64-18-6, EC Nr.; 200-579-1. Flam. Liq. 3, Acute Tox. 3 (inhalation – vapor), Acute Tox. 4 (Ingestion). Skin Corro./Irrit. 1A, ye Dam./Irri. 1, H226, H331, H302, H314, EUH071
2. 20-50% AmmoniumFormate, CAS Nr.; 540-69-2, Skin Corr. 2, H315, Eye dam. H318
3. 0-20% Lactic Acid, CAS Nr.; 79-33-4, EC Nr.; 201-196-2. Skin Corr. 2, H315, Eye dam. H318
4. 0-20% Acetic Acid, CAS nr.; 64-19-7, EC Nr.; 200-580-7. Skin Corro./Irrit. 1A, ye Dam./Irri. 1, H314
5. 0-20% Propionic Acid, CAS Nr.; 79-09-4, EC Nr.; 201-176-3. Skin Corr., 1B, H314. Flam. Liq. 3, H226
6. 0-10% Benzoic Acid; Cas nr.: 65-85-0, Eines nr.: 200-618-2. Skin irri.1, Eye. Dam. 1 - H318, H315, H372

## 4. First-aid measures

### 4.1 Description of first aid measures

General information:	In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately and launder before reusing.
After inhalation:	Exposure by inhalation may cause respiratory irritation. Remove the casualty to fresh air. If inhaled, remove to fresh air. Obtain medical attention if symptoms occur
After ingestion:	If swallowed, rinse mouth with and give person plenty of water to drink. Do not induce vomiting. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person.
After skin contact:	In case of contact with the skin wash off with plenty of water and soap.
After eye contact:	Separate eyelids and rinse immediately with water for 15 minutes. Open eyelids forcibly. Obtain medical attention immediately.

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

Potential acute health effects

Inhalation :	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Ingestion :	May cause burns to mouth, throat and stomach.
Skin contact:	Adverse symptoms may include pain or irritation, redness, blistering and burns may occur.
Eye contact :	Causes serious eye damage.
Over-exposure signs/symptoms:	Adverse symptoms may include pain, watering and redness.

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

Treat symptomatically

## 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:	Use foam, carbon dioxide or dry chemical powder. Water spray jet allowed.
Unsuitable extinguishing media:	Full water jet.

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

Specific hazards:	In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide.
-------------------	--

### 5.3 Advice for firefighters

Special protective clothing:	Wear suitable protective clothing. Self-contained breathing apparatus.
Environmental precautions:	Vacuum or sweep up material and place in a designated, labelled waste container. Clean up affected area with a large amount of water.

Personal Precautions: Avoid creating dusty conditions and prevent wind dispersal. Use suitable protective equipment (section 8).  
 Special methods: -

## 6. Accidental release measures

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

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. High risk of slipping due to leakage/spillage of product.

**For emergency responders :** If specialized clothing is required to deal with the spillage (PPE), take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental Precautions

Environmental precautions: Try to avoid that the material gets into sewers or open waters.

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

Cleaning measures: Pick up with absorbent material (e.g.; sand, silica, acid binder, universal binder, sawdust)

### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 13 for additional waste treatment information.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Handling: Use with adequate ventilation. Local exhaust ventilation should be provided. Avoid creating dusty conditions and prevent wind dispersal. Avoid contact with the eyes, skin and clothing. Take care for a safety shower and an eyewash installation.

General protective/hygiene measures: Do not eat, drink or smoke during work time. Wash hands before breaks and after work.

Advise on protection against fire/explosions: Keep away from sources of heat and ignition.

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

Storage conditions: Store in original packaging. Store dry and cool in a well ventilated room. Keep away from heat, the sun and sources of ignition.

Avoiding materials: Strong oxidizing agents.

**7.3 Specific end use(s)**

Recommendations : N.A.

Industrial sector specific solutions: N.A.

**8. Exposure controls / personal protection**

**8.1 Control parameters** No parameters available for monitoring.

**8.2 Exposure controls**

Exposure limit values: Not available.

Hygiene measures : When using do not eat, drink or smoke. Wash hands after handling compounds and before eating, smoking and using the lavatory at the end of the day.

Personal protective equipment: Wear suitable gloves (PVC or rubber, EN 374). Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye/face protection: Appropriate Material; Butyl rubber or nitrile rubber. Safety glasses with side shields (EN 166) or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Production scale and respiratory system: If the exposure limit is exceeded and engineering controls are not feasible, a full face piece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Other: Normal chemical working clothes.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance: Liquid

Colour: Blue

Odour: Pungent irritating odour

Solubility in water: Completely

Bulk Density: 1.10 - 1.25 (20 °C)

Melting point: > 50 °C

Flash point: > 100 °C

Address: Bloemendaalsezeedijk 10-C, 4765BP Zevenbergschenhoek, The Netherlands  
 Tel: +31655824567  
 Fax: +31184659014  
 E-mail: Cornelius@ffchemicals.nl

Ignition temperature:	> 200 °C
Auto-ignition temperature:	> 200 °C
pH:	2.0 - 3.5
Flammability:	The product is not combustible
Boiling temperature:	> 100 °C
Viscosity:	N.A.

## 9.2 Other information

No data available

## 10. Stability and reactivity

**10.1 Reactivity** No data available

### 10.2 Chemical stability

Stability: Stable under recommended storage and handling

**10.3 Possibility of hazardous Reactions** No data available

### 10.4 Conditions to avoid

Avoiding measures: Heat, protect from the sun.

### 10.5 Incompatible materials

Materials: Oxidizing agents, alkalies.

### 10.6 Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

**Remark:** In case of fire: see section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:	Oral; > 1000mg/kg (Rat, method OECD 401) Dermal; > 1000mg/kg (Rabbit, method OECD 434) Inhalational; N.A.
Effects for the skin:	Corrosive (Rabbit, method OECD 404)
Effect for the eyes:	Corrosive (Rabbit, OECD 434)
Effects if inhaled:	May cause respiratory irritation and burns.
Carcinogenicity:	No carcinogenic suspected agent.

## 12. Ecological information

### 12.1 Toxicity

Fish toxicity:	LC50/Lepomis macrochirus: N.A.
Daphnia toxicity:	EC50/Daphnia Magna: N.A.
Algae toxicity:	EC50/Pseudokirchneriella subcapitata : N.A.
Bacteria toxicity:	EC10/Pseudomonas putida: N.A.

**12.2 Persistence and degradability**

Environmental effects: Readily biodegradable

**12.3 Bioaccumulative potential**

Bio concentration: This product shows a low bioaccumulation potential.

**12.4 Mobility in soil**

**Mobility** Water-soluble liquid  
Do not allow to enter groundwater, surface water or drains, even in small quantities.

**12.5 Results of PBT and vPvB assessment**

**PBT :** The product is not considered to be a PBT.

**vPvB :** The product is not considered to be a vPvB.

**12.6 Other adverse effects**

No known significant effects or critical hazards.

**12.7 Other Information**

Do not discharge product unmonitored into the environment.

**13. Disposal considerations****13.1 Waste treatment methods**

**Product:** Waste must be disposed of in accordance with national and local environmental regulations (EC Directive 91/689/EEC). Controlled biodegradation in waste water treatment is possible.

**Packaging:** Packaging that cannot be cleaned should be disposed off as product waste.

**14. Transport information****NOT CLASSIFIED AS ADR GOODS FOR TRANSPORTATION!****14.1 Transport ADR/RID/AND**

Class -  
Packaging group -  
Hazard identification no. -  
UN number -  
Technical name -  
Tunnel restriction code -  
Label -

**14.2 Transport IMDG**

Class -  
Packaging group -  
UN number -  
Technical name -

Address: Bloemendaalsezeedijk 10-C, 4765BP Zevenbergschenhoek, The Netherlands  
Tel: +31655824567  
Fax: +31184659014  
E-mail: Cornelius@ffchemicals.nl

EmS -  
Label -

### 14.3 Transport ICAO-TI / IATA

Class -  
Packaging group -  
UN number -  
Technical name -  
Label -

### 14.4 Other information

No data available

### 14.5 Environmental hazards

See section 14.1-14.3 if relevant

### 14.6 Special precautions for user

No data available

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## 15. Regulatory information

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

REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) constituting Appendix C to the Convention concerning International Carriage by Rail (COTIF)

International Maritime Dangerous Goods Code (IMDG CODE)

International Air Transport Association - Dangerous Goods Regulation (IATA DGR)

Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste (94/62/EC)



Ordinance of the Minister of Labour and Social Policy of 29 November 2002 concerning maximum permissible concentrations and intensities of agents harmful to health in a work environment (Journal of Laws No 217 item 1833) with subsequent amendments.

Directive of the European Parliament and of the Council of 19 December 2008 on waste and repealing certain Directives (2008/98/EC)  
Ordinance

#### **Annex XIV - List of substances subject to authorisation**

**Substances of very high concern:** None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** Not applicable.

**Other EU regulations:** All components are listed or exempted.

**15.2 Chemical Safety Assessment:** No data available

#### **16. Other information**

The information contained in the Material Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality.

The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

Safety, Health & Environment Department. Telephone no.: **+0031655824567**