



# Material Safety Data Sheet

According to 91/155 EC

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Printing date 02.04.2001  
Reviewed on 22.03.2001

## 1 Identification of the substance/preparation and of the company/ undertaking

### Product details

Trade name:

# AgroClair AF

Manufacturer/Supplier:

Westfalia Landtechnik GmbH  
Werk Herdecke  
Mühlenstraße 17 - 20  
D-58313 Herdecke  
Telefon: (0 23 30) 64 0

Information in case of emergency:

Call your medical practitioner LONDON  
(Information available at the National Poison Unit - Guy's  
Hospital)


## 2 Composition/information on ingredients

### Chemical characterization

Description:

Mixture of substances listed below with nonhazardous  
additions.

### Dangerous components:

1310-58-3	potassium hydroxide		C; 22-35	< 10%
	Nonionics		Xi; 36	< 10%
7681-52-9	sodium hypochlorite, solution		C; 31-34	< 5%

## 3 Hazards identification

Hazard description:



C Corrosive

Information concerning particular  
hazards for human and environment:

R 31 Contact with acids liberates toxic gas.  
R 35 Causes severe burns.

Classification system:

The classification is according to the latest editions of the  
EU-lists, and extended by company and literature data.

## 4 First-aid measures

General information:

Immediately remove any clothing soiled by the product.

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<b>After inhalation:</b>	In case of unconsciousness place patient stably in side position for transportation.
<b>After skin contact:</b>	Immediately wash with water and soap and rinse thoroughly.
<b>After eye contact:</b>	Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>After swallowing:</b>	Drink plenty of water and provide fresh air. Call for a doctor immediately.

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## 5 Fire-fighting measures

<b>Suitable extinguishing agents:</b>	CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Protective equipment:</b>	No special measures required.

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## 6 Accidental release measures

<b>Person-related safety precautions:</b>	Wear protective equipment. Keep unprotected persons away.
<b>Measures for environmental protection:</b>	Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water. Dilute with plenty of water.
<b>Measures for cleaning/collecting:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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## 7 Handling and storage

<b>Handling:</b>	
<b>Information for safe handling:</b>	Do not seal receptacles gas-tight. Open and handle receptacle with care.
<b>Information about fire - and explosion protection:</b>	No special measures required.
<b>Storage:</b>	
<b>Requirements to be met by storerooms and receptacles:</b>	Provide alkali-resistant floor.
<b>Information about storage in one common storage facility:</b>	Do not store together with acids.

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**Further information about storage conditions:**

Protect from frost.  
Protect from heat and direct sunlight.

**Class according to regulation on flammable liquids:**

Void

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:**

No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:**

The lists valid during the making were used as basis.

**Personal protective equipment: General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**Respiratory protection:**

Not required.

**Protection of hands:**



Protective gloves

**Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	<-10°C
<b>Boiling point/Boiling range:</b>	> 102°C
<b>Flash point:</b>	Not applicable.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.

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<b>Vapour pressure at 20°C:</b>	20 mbar
<b>Density at 20°C:</b>	1.16 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>pH-value (10 g/l) at 20°C:</b>	12.6
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	> 50 %

## 10 Stability and reactivity

<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>Dangerous reactions</b>	Contact with acids releases toxic gases.
<b>Dangerous decomposition products:</b>	Chlorine

## 11 Toxicological information

**Acute toxicity:**

<b>LD/Lc50 values relevant for classification:</b>		
<b>1310-58-3 potassium hydroxide</b>		
Oral	LD50	365 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** Strong caustic effect on skin and mucous membranes.

**on the eye:** Strong caustic effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Corrosive. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## 12 Ecological information

<b>General notes:</b>	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
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Do not allow product to reach ground water, water course or sewage system.  
 Must not reach sewage water or drainage ditch undiluted or unneutralized.  
 Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

**Product:**

**Recommendation**

Must not be disposed together with household garbage.  
 Do not allow product to reach sewage system.

European waste catalogue	
07 00 00	Wastes from organic chemical processes
07 06 00	waste from the MFSU of fats, grease, soaps, detergents disinfectants and cosmetics
07 06 08	other still bottoms and reaction residues

**Uncleaned packaging:**

**Recommendation:**

Disposal must be made according to official regulations.

**Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

### 14 Transport information

**Land transport ADR/RID (cross-border)**



**ADR/RID class:**

8 Corrosive substances.

**Item:**

47b

**Danger code (Kemler):**

80

**UN-Number:**

3266

**Hazard label**

8

**Description of goods:**

3266 Corrosive liquid, basic, inorganic, n.o.s., potassium hydroxide

**Maritime transport IMDG:**

**IMDG Class:**

8

**Page:**

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**UN Number:**

3266

**Packaging group:**

II

**EMS Number:**

8-15

**MFAG:**

760

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<b>Marine pollutant:</b>	No
<b>Proper shipping name:</b>	Corrosive liquid, basic, inorganic, n.o.s., potassium hydroxide
<b>Air transport ICAO-TI and IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	8
<b>UN/ID Number:</b>	3266
<b>Packaging group:</b>	II
<b>Proper shipping name:</b>	Corrosive liquid, basic, inorganic, n.o.s., potassium hydroxide

## 15 Regulatory information

**Labelling according to EU guidelines:** The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**Code letter and hazard designation of product:** C Corrosive

**Risk phrases:** 31 Contact with acids liberates toxic gas.  
35 Causes severe burns.

**Safety phrases:** 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**National regulations:**

**Classification according to VbF:** Void

**Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** Dairy Supplies / 1020