

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## FFB 705

Version 5.0

Revision Date 30.05.2018

Print Date 13.06.2018

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

#### 1.1 Product identifier

Product name / Trade name : FFB 705

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

Recommended use : Raw material for industry

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

Company : Budenheim Ibérica S.L.U.

Address : Extramuros, s/n  
50784 La Zaida  
ES

Telephone : +340976178412

Telefax : +340976178751

Additional information available from: : www.budenheim.com

Prepared by / E-mail address of person responsible for the SDS : ProductStewardship@budenheim.com

#### 1.4 Emergency telephone number

GBK GmbH: +49 (0)6132-84463

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.

Serious eye damage, Category 1 H318: Causes serious eye damage.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.  
H318 Causes serious eye damage.

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Precautionary statements : **Prevention:**  
P234 Keep only in original container.  
P280 Wear eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P390 Absorb spillage to prevent material damage.

Hazardous components which must be listed on the label:  
aluminium tris(dihydrogen phosphate)

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
aluminium tris(dihydrogen phosphate)	13530-50-2 236-875-2 01- 2119490078- 32-0000	Xi; R41	Eye Dam.1; H318	>= 30 - < 50

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Never give anything by mouth to an unconscious person.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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|-------------------------|--|
| In case of skin contact | : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.  |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.  |
| If swallowed            | : Keep respiratory tract clear. Do not give milk or alcoholic beverages. If symptoms persist, call a physician. Take victim immediately to hospital. |

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

- |       |                              |
|-------|------------------------------|
| Risks | : Causes serious eye damage. |
|-------|------------------------------|

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

- |           |  |
|-----------|--|
| Treatment | : For specialist advice physicians should contact the Poisons Information Service. |
|-----------|--|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                              |   |
|------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|------------------------------|---|

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

- |                                       |                             |
|---------------------------------------|-----------------------------|
| Specific hazards during fire-fighting | : No information available. |
|---------------------------------------|-----------------------------|

### 5.3 Advice for firefighters

- |   |  |
|---|--|
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.   |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

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## SECTION 6: Accidental release measures

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

- |                      |                                      |
|----------------------|--------------------------------------|
| Personal precautions | : Use personal protective equipment. |
|----------------------|--------------------------------------|

### 6.2 Environmental precautions

- |                           |   |
|---------------------------|---|
| Environmental precautions | : Prevent product from entering drains. |
|---------------------------|---|

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

- |                         |  |
|-------------------------|--|
| Methods for cleaning up | : Neutralize with chalk, alkali solution or ammonia. |
|-------------------------|--|

### 6.4 Reference to other sections

- For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray.

Hygiene measures : Avoid contact with skin, eyes and clothing. Remove contaminated clothing and protective equipment before entering eating areas.

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

Requirements for storage areas and containers : Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. Keep tightly closed. Keep in a dry, cool and well-ventilated place.

Advice on common storage : Do not store near acids.

Other data : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

For further information, refer to the product technical data sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium tris(dihydrogen phosphate)	Workers	Inhalation	Long-term exposure, Systemic effects	4.07 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term exposure, Systemic effects	3.04 mg/m <sup>3</sup>

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
aluminium tris(dihydrogen phosphate)	Fresh water	0.032725 mg/l
	Marine water	0.003273 mg/l

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### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Hand protection

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

Polyvinyl alcohol or nitrile- butyl-rubber gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin protection : Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Wear suitable protective equipment. When using do not eat, drink or smoke.

Hygiene measures : Avoid contact with skin, eyes and clothing. Remove contaminated clothing and protective equipment before entering eating areas.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance (Form) : liquid

Colour : colourless

Odour : odourless

pH (10 g/l, 20 °C) : ca. 2.4

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Flammability (liquids) : does not ignite

Water solubility : 1,000 g/l (20 °C)

Density (20 °C, 1,013 hPa) : ca. 1.49 g/cm<sup>3</sup>

Corrosive to metals : Corrosive to metals

### 9.2 Other information

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No data available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Chemical stability : No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Possibility of hazardous reactions : No hazards to be specially mentioned.

No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available

#### 10.5 Incompatible materials

Materials to avoid : None known.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Components:

##### **aluminium tris(dihydrogen phosphate):**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
OECD Test Guideline 420, GLP: yes

Acute inhalation toxicity : LC50 (4 h, Rat, male and female): > 5.1 mg/l (dust/mist)  
OECD Test Guideline 403, GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 4,640 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### **Skin corrosion/irritation**

Not classified based on available information.

##### Components:

##### **aluminium tris(dihydrogen phosphate):**

reconstructed human epidermis (RhE) : No skin irritation  
EPISKIN Human Skin Model Test, GLP: yes

reconstructed hu- No skin irritation

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man epidermis (RhE)

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Components:

##### **aluminium tris(dihydrogen phosphate):**

: Irreversible effects on the eye  
OECD Test Guideline 437, GLP: yes

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Components:

##### **aluminium tris(dihydrogen phosphate):**

Mouse : Does not cause skin sensitisation. Test Type: Maximisation  
Test  
OECD Test Guideline 429, GLP: yes

### Carcinogenicity

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **aluminium tris(dihydrogen phosphate):**

Genotoxicity in vitro : negative (Ames test, Metabolic activation)  
OECD Test Guideline 471, GLP: yes  
In vitro tests did not show mutagenic effects

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **aluminium tris(dihydrogen phosphate):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 100 mg/l  
OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout), 96 h): 100 mg/l  
OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea), 48 h): > 100 mg/l  
OECD Test Guideline 202

### 12.2 Persistence and degradability

#### Components:

##### **aluminium tris(dihydrogen phosphate):**

Biodegradability : The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

#### Components:

##### **aluminium tris(dihydrogen phosphate):**

Partition coefficient: n-octanol/water : Not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : 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.

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste from residues (Product) : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 3264  
ADR : UN 3264  
RID : UN 3264  
IMDG : UN 3264  
IATA : UN 3264

### 14.2 UN proper shipping name



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<b>ADN</b>	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium tris(dihydrogen phosphate))
<b>ADR</b>	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium tris(dihydrogen phosphate))
<b>RID</b>	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium tris(dihydrogen phosphate))
<b>IMDG</b>	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium tris(dihydrogen phosphate))
<b>IATA</b>	:	Corrosive liquid, acidic, inorganic, n.o.s. (Aluminium tris(dihydrogen phosphate))

### 14.3 Transport hazard class(es)

<b>ADN</b>	:	8
<b>ADR</b>	:	8
<b>RID</b>	:	8
<b>IMDG</b>	:	8
<b>IATA</b>	:	8

### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: C1
Hazard Identification Number	: 80
Labels	: 8
<b>ADR</b>	
Packing group	: III
Classification Code	: C1
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: (E)
<b>RID</b>	
Packing group	: III
Classification Code	: C1
Hazard Identification Number	: 80
Labels	: 8
<b>IMDG</b>	
Packing group	: III
Labels	: 8
EmS Code	: F-A, S-B
<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 856
Packing instruction (LQ)	: Y841
Packing group	: III
Labels	: Corrosive
<b>IATA (Passenger)</b>	
Packing instruction (passenger aircraft)	: 852
Packing instruction (LQ)	: Y841

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Packing group : III  
Labels : Corrosive

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

#### Labelling

Symbol(s) : Xi

Risk phrase(s) : R41 Risk of serious damage to eyes.

Safety phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39 Wear eye/face protection.  
S60 This material and its container must be disposed of as hazardous waste.

### 15.2 Chemical safety assessment

No data available

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### SECTION 16: Other information

#### Full text of H-Statements referred to under sections 2 and 3.

H318 Causes serious eye damage.

#### Full text of R-phrases referred to under sections 2 and 3

R41 Risk of serious damage to eyes.

#### Full text of other abbreviations

Eye Dam. Serious eye damage  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Date format : dd.mm.yyyy

Date of last issue : 05.04.2018

Date of first issue : 12.10.2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REG\_EU / EN

**National Emergency Telephone Number (ECHA):**

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