

**SECTION 1. Identification of the substance/mixture and of the company/enterprise**

**1.1. Product identifier**

Product name : CATALASI AF PLUS  
Product code: refer to sales department

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

Clarifying Agents  
Sectors of use:  
Manufacture of food products[SU4]  
Product category:  
Process aid for enological use

Not recommended uses  
Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

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## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

Contains:

Ingredients: activated bentonite, fish gelatine(a), PVPP, food-grade gelatine (swine), 5% silica gel, isinglass(a).  
Food use, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter.

(a)= fish gelatin and isinglass do not require labelling for the clarification of wine and beer.

(<Fish and products thereof except (b) fish gelatine or Isinglass used as fining agent in beer and wine>in compliance

with Regulation (EU) No 1169/2011 - Annex II and subsequent additions and modifications

### 2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

No dangerous substance to report.

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Bentonite substance for which there are Community workplace exposure limits	>= 50 < 100%			1302-78-9	215-108-5	
Silica gel substance for which there are Community workplace exposure limits	>= 5 < 10%				231-545-4	

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):.

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):.

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not dangerous. In case of malaise consult a doctor.

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

No data available.

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

No data available.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

### 5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.

Keep containers cool with water spray

## SECTION 6. Accidental release measures

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

### 6.2. Environmental precautions

Contain spills

Inform the competent authorities.

Dispose of the waste material in compliance with the regulations

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

6.3.1 Containment:

Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

#### 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

At work do not eat or drink.  
See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabelled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

#### 7.3. Specific end use(s)

Manufacture of food products:  
Handle with care.  
Store in a clean, dry, ventilated area away from heat and direct sunlight.  
Keep container tightly closed.

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

=====

Related to contained substances:  
Bentonite:  
INHALABLE, DUST

Limit value – Eight hours  
(ppm)/(mg/m<sup>3</sup>)  
Austria: x/10  
Belgium: x/10  
Denmark: x/10  
France: x/10  
Germany (AGS): x/10(1)(2)(3)  
Germany (DFG): x/4  
Hungary: x/10  
Ireland: x/10  
Singapore: x/10  
Spain: x/10  
Sweden: x/10  
Switzerland: x/10  
USA – OSHA: x/15

RESPIRABLE DUST

Limit value – Eight hours  
Austria: x/5  
Belgium: x/3  
France: x/5 respirable aerosol

Germany (AGS): x/1,25 (1)(2)(3)(4)(5)  
Germany (DFG): x/1,5  
Hungary: x/6  
Ireland: x/4  
Spain: x/3  
Sweden: x/5  
Switzerland: x/3  
USA – OSHA: x/5

Remarks

**INHALABLE DUST**

Germany (AGS): (1) Insoluble particulates (2) not applicable for ultra – fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substance are available

**RESPIRABLE DUST**

France: Bold type: Restrictive statutory limit values

Germany (AGS): (1) Insoluble particulates (2) not applicable for ultra – fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substances are available (4) the limit value was derived for dusts with an average density of 2.5 mg/mg<sup>3</sup> (5) at work areas where all technical and further measures are state of the art but the LV is still not adhered, the old LV can be applied for a transitional period until 31st December 2018 (8 h – LV: 3.0 mg/m<sup>3</sup>, 15 minutes average value: 6.0 mg/m<sup>3</sup>)  
Germany (DFG): Insoluble particulate

The ACGIH believes that even biologically inert, insoluble or poorly soluble particles can have adverse effects and, therefore, recommends that the concentration of such dust in the air be kept below: 3mg/m<sup>3</sup>, for respirable particles; 10mg/m<sup>3</sup>, for inhalable particles, at which time a TLV will be established for the particular substance.

Silica gel:

Silica, amorphous

Limit value - Eight hours  
(ppm)/(mg/m<sup>3</sup>)

Australia: -/2 (1)  
Austria: -/4 inhalable aerosol  
Belgio: -/10  
Canada – Ontario: -/10  
Canada - Québec: -/6(1)  
Denmark: 0-/ 2 inhalable aerosol  
Finland: -/5  
Germany (AGS): -/4 inhalable aerosol  
Germany (DFG): -/4 (1)  
Ireland: -/6 (1); -/2,4 (2)  
Latvia: -/1  
New Zealand: -/1  
People's Republic of China: -/2(1)  
Poland: -/10(1); -/2 (2)  
Singapore: -/10  
South Korea: -/10  
Switzerland: -/4 inhalable aerosol aerosol  
USA - OSHA: 80% silica totale dust  
United Kingdom: -/6 inhalable aerosol; -/2,4 respirable aerosol

Limit value - Short term  
(ppm)/(mg/m<sup>3</sup>)

Denmark: -/4 inhalable aerosol

Australia (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Canada - Québec (1) Respirable fraction  
Germany (DFG) (1) Inhalable fraction  
Ireland (1) Inhalable fraction (2) Respirable fraction  
People's Republic of China (1) Inhalable fraction  
Poland (1) Inhalable fraction (2) Respirable fraction

L'ACGIH® ritiene che anche particelle biologicamente inerti, insolubili o poco solubili, possono avere effetti avversi e, pertanto, raccomanda che la concentrazione di tali polveri nell'aria sia mantenuta al di sotto di: 3 mg/m<sup>3</sup>, per le particelle respirabili; 10 mg/m<sup>3</sup>, per le particelle inalabili, fino al momento in cui sarà stabilito un TLV per la particolare sostanza.

- Substance: Silica gel  
DNEL  
Local effects Long term Workers inhalation = 4 (mg/m<sup>3</sup>)

## 8.2. Exposure controls

Appropriate engineering controls:  
Manufacture of food products:  
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

### 8.2.2 Individual protection measures:

(a) Eye / face protection  
Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(b) Skin protection

(i) Hand protection  
Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(ii) Other  
Wear normal work clothing.

(c) Respiratory protection  
Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(d) Thermal hazards  
No hazard to report

Environmental exposure controls:  
Use according to good working practices and avoid to disperse the product into the environment.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
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Physical and chemical properties	Value	Determination method
Physical state	Fine powder	
Colour	Ivory	
Odour	not determined as it is considered not relevant for the characterization of the product	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flammability	not determined as it is considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	ASTM D92
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
pH	7.5 ± 0.5 (20 ° C; sol. 5%)	
Kinematic viscosity	not determined as it is considered not relevant for the characterization of the product	
Solubility	in water	
Water solubility	soluble in all proportions	
Partition coefficient n-octanol/water (log value)	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Density and/or relative density	0.45 - 0.55 (20°C)	
Relative vapour density	not determined as it is considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

## 9.2. Other information

### 9.2.1 Information with regard to physical hazard classes

No data available.

### 9.2.2 Other safety characteristics

No data available.

## SECTION 10. Stability and reactivity



### 10.1. Reactivity

No risk of reactivity

### 10.2. Chemical stability

No dangerous reactions if handled and stored according to the provisions

### 10.3. Possibility of hazardous reactions

No dangerous reactions are expected

### 10.4. Conditions to avoid

Heat: keep away from heat sources. Exposure to light and heating. Open container.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

It does not decompose when used for its intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) acute toxicity: Bentonite: Ingestion - LD50 rat (mg / kg / 24h bw): na

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): na

Inhalation - LD50 rat (mg / l / 4h): na

Silica gel: Ingestion-rat LD50 (mg/kg/bw24h): > 3100

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): > 5000

Inhalation-rat LD50 (mg/l/4h): n.a.

(b) skin corrosion/irritation: Silica gel: Non-corrosive

Silica gel: Non-irritating

(c) serious eye damage/irritation: Silica gel: Non-corrosive

Silica gel: Non-irritating

(d) respiratory or skin sensitisation: Silica gel: Non-sensitizing

(e) germ cell mutagenicity: Silica gel: Non-mutagenic

(f) carcinogenicity: Silica gel: Not carcinogenic

(g) reproductive toxicity: Silica gel: Non-toxic for reproduction

(h) specific target organ toxicity (STOT) single exposure: Silica gel: Not available

(i) specific target organ toxicity (STOT) repeated exposure: Silica gel: Not available

(j) aspiration hazard: Silica gel: Not available

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.

Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

**11.2. Information on other hazards**

No data available.

**SECTION 12. Ecological information**

**12.1. Toxicity**

=====  
Related to contained substances:  
Bentonite:

Acute toxicity - fish LC50 (mg / l / 96h): na  
Acute toxicity - crustaceans EC50 (mg / l / 48h): na  
Acute algae toxicity ErC50 (mg / l / 72-96h): na  
Chronic toxicity - fish NOEC (mg / l): nd  
Chronic toxicity - NOEC crustaceans (mg / l): nd  
Chronic toxicity NOEC algae (mg / l): nd

Silica gel:  
Acute toxicity-fish LL50 (mg/l/96H): > 10000  
Acute toxicity-crustaceans EL50 (mg/l/24H): > 10000  
Acute algae toxicity ErC50 (mg/l/72-96H): n.a.

Use according to good working practices and avoid to disperse the product into the environment.

**12.2. Persistence and degradability**

=====  
Related to contained substances:  
Bentonite:  
Not available

Silica gel:  
Not biodegradable

**12.3. Bioaccumulative potential**

=====  
Related to contained substances:  
Bentonite:  
Not available

Silica gel:  
Not bioaccumulative

**12.4. Mobility in soil**

=====  
Related to contained substances:  
Bentonite:  
Not available

Silica gel:  
Not applicable

#### **12.5. Results of PBT and vPvB assessment**

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

#### **12.6. Endocrine disrupting properties**

No data available.

#### **12.7. Other adverse effects**

No adverse effects

### **SECTION 13. Disposal considerations**

#### **13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.  
Recover if possible. Operate according to local or national regulations

### **SECTION 14. Transport information**

#### **14.1. UN number or ID number**

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

#### **14.2. UN proper shipping name**

None

#### **14.3. Transport hazard class(es)**

None

#### **14.4. Packing group**

None

#### **14.5. Environmental hazards**

None

#### **14.6. Special precautions for user**

No data available.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Transport in bulk is not foreseen

### **SECTION 15. Regulatory information**

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable  
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC in a proportion  $\geq 0.1\%$ .  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC in a proportion  $\geq 0.1\%$ .

Reg. EC 648/04: see 2.2

Reg. (EU) n. 1169/2011: see 2.2

Reg (UE) 528/2012: see.to 2.2

Substances in the Candidate List (REACH Article 59)

Based on available data, no SVHC substances are present

#### **15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

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

#### **16.1. Other information**

Points modified compared to previous release: 9.1. Information on basic physical and chemical properties.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: Calculation method

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.

Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Regulation (UE) 528/2012 (Biocides) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat

BFC: Bioconcentration Factor  
BOD: Biochemical Oxygen Demand  
CAS: Chemical Abstract Service number  
CAP: Centre AntiPoison  
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)  
CL50/LC50: Lethal Concentration 50  
DL50/LD50: Lethal Dose 50  
COD: Chemical Oxygen Demand  
DNEL: Derived No Effect Level  
EC50: half maximal Effective Concentration  
ERC: Environment Release Classes  
EU/UE: European Union  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods code  
Kow: Octanol water partition coefficient  
NOEC: No Observed Effect Concentration  
OEL: Occupational Exposure Limit  
PBT: Persistent Bioaccumulative and Toxic  
PC: Product Categories  
PNEC: Predicted No Effect Concentration  
PROC: Process Categories  
RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)  
STOT: Target Organ Systemic Toxicity  
STOT (RE): Repeated Exposure  
STOT (SE): Single Exposure  
STP: Sewage Treatment Plants  
SU: Sector of Use  
SVCH: Substance of Very High Concern  
TLV: Threshold Limit Value  
vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:  
<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

\*\*\* this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: variation on basic physical and chemical properties.