#### **SAFETY DATA SHEET**

### ADDCON XF SUPERFINE



ADDCON XF SUPERFINE contains no dangerous substances

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

ADDCON XF SUPERFINE

Chemical product name Premixture of salts for formic and propionic acid and benzoic acid

**Synonyms** 

ADDCON GmbH Kaiserstraße 1 D-53113 Bonn

**GERMANY** 

ADDCON EUROPE GmbH Säurestr. 1. Areal E Manufacturer / Supplier

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**Emergency Telephone number** 

+49 (0) 3493 899899 5 (office time: Mo - Fr, 8 a.m. - 5 p.m.)

e-mail-address of person thomas.ohlmann@addcon.com responsible for this SDS Recommended use Preservative for feeding stuffs

### 2. Hazards identification

The preparation is not classified as dangerous according to directive 67/548/EEC and its amendments.

Classification Xi. irritant

Human health hazards Dust may cause irritation of eyes and by inhalation.

**Environmental hazards** Based on the available data of this product no hazardous properties are known.

Possibility of explosion exists under dusty conditions. Hygroscopic (absorbs moisture from the Physical / chemical hazards

air)

# 3. Composition / information on ingredients

Substance / preparation : preparation

Chemical name	CAS no.	%	EC- no. *	classification
Calcium formate See section 16 for the full text of the R-phrases declared above.	544-17-2	≈ 35	208-863-7	GHS05; H318 Xi, R41
Benzoic acid See section 16 for the full text of the R-phrases declared above.	65-85-0	≈ 5	200-618-2	GHS07; H302/319 Xn, R22; Xi, R36

<sup>\*</sup> EC-No. means EINECS- or ELINCS-number.

#### 4. First-aid measures

Effects and symptoms

Inhalation Dust may cause irritation.

Ingestion By ingestion of large amounts may cause harmful.

Skin contact Contact may cause transient irritation.

Eve contact Contact may cause irritation.

First-aid measures

General Move exposed person to fresh air.

Inhalation If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.

If swallowed, rinsed mouth with water (only if the person is conscious). Obtain medical Ingestion

attention if symptoms occur.

Rinse with plenty of running water. Remove contaminated clothes and shoes. Obtain medical Skin contact

attention if symptoms occur.

Eye contact Rinse with plenty of running water. Obtain medical attention if symptoms occur.

First-aid facilities: No special recommendations.

# 5. Fire-fighting measures

Extinguishing media

Small / Large fire suitable Use water spray, dry chemical or CO<sub>2</sub>.

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## 5. Fire-fighting measures

Unusual fire / explosion hazards Fine dust clouds may form explosive mixtures with air.

Hazardous thermal In case of fire, may produce hazardous decomposition products such as carbon monoxide,

decomposition products carbon dioxide, calcium oxide. Special fire-fighting procedures No special measures required.

Protection of fire-fighters Wear suitable protective clothing. Self-contained breathing apparatus.

### 6. Accidental release measures

Avoid creating dusty conditions and prevent wind dispersal. Use suitable protective equipment

(section 8). Keep away from sources of ignition. Take precautionary measures against static Personal precautions

discharges. Use explosion-proof electrical (ventilating, lighting and material heating)

**Environmental precautions** No special measures required.

Clean-up methods

Handling

Vacuum or sweep up material and place in a designated, labelled waste container. Clean up Small spill and leak

affected area with a large amount of water.

Large spill and leak Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

Use with adequate ventilation. Local exhaust ventilation should be provided. Avoid creating

dusty conditions and prevent wind dispersal. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Take measures against static discharge. Keep away from

sources of ignition.

Store in a dry, cool and well-ventilated area (due to limited adsorption properties).

Storage The product has been produced and packaging in accordance with strict quality practices.

Maintain this quality level by storing this product away from other chemicals.

Electrostatic charging can occur during unloading or processing of this material. If necessary Remarks

take precautionary measures against static discharges.

The product should be handled with the care usual when dealing with chemicals.

Packaging materials

Suitable Paper, Polyethylene or Big Bags (polypropylene).

Note: See section 10 for stability and reactivity.

## 8. Exposure controls / personal protection

**Engineering measures** Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

When using does not eat, drink or smoke. Wash hands after handling compounds and before Hygiene measures

eating, smoking and using the lavatory at the end of the day.

**Control parameters Derived effect levels** 

> DNEL Calcium formate

Population	Effects	Exposure	value
Workers	Systemic	Inhalation – long / short term	337 mg/m³
		Dermal – long / short term	4780 mg/kg bw/day
Workers	Local	Dermal – long / short term	16,7 mg/cm <sup>2</sup>
Consumers	Systemic	Oral – long term	23,9 mg/kg bw/day
		Inhalation – long / short term	83,2 mg/m³
		Dermal – long / short term	2390 mg/kg bw/day
Consumers	Local	Dermal – long / short term	8,3 mg/cm <sup>2</sup>

**Predicted effect concentrations** 

PNEC Calcium formate

Compartment detail	Value	Method detail	remarks
Soil	1,5 mg/kg dwt 2,221 mg/l	Assessment factors	
Sediment	13,4 mg/kg dwt	Equilibrium partitioning	

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# 8. Exposure controls / personal protection

Calcium formate

Marine water

Compartment detail Value Method detail remarks

> Assessment factors 0,2 mg/l Equilibrium 1,34 mg/kg

partitioning

Fresh water 2 mg/l Assessment factors

dwt

Personal protective equipment - Production scale

Respiratory system A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Skin and body Working clothes

Eyes Wear chemical goggles. Wear suitable gloves. Hands

> 8 hours (breakthrough time): Nitril rubber, butyl rubber, neoprene, Viton, PVC. Replace Recommended material(s)

damaged gloves.

Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual situation.

## 9. Physical and chemical properties

Physical state Solid, powder, hygroscopic

Colour White - greyish Odour Odourless pH (concentration 10%) 6 - 10

Ca. 250 °C (decomposition) **Boiling point Melting point** > 120 °C (partially decomposition)

Flash point > 120 °C. Lower explosion limit See remarks. Upper explosion limit See remarks.

Auto-ignition temperature > 300 °C (Wire basket)

Density (g/cm3) Not available. **Bulk density**  $0.5 - 0.8 \text{ kg/m}^3$ 

Solubility in water ca. 300 g/100 ml (20°C)

Solubility Partly soluble in the following materials: cold water.

Molecular weight Not available.

Minimum ignition energy Dust (particle size  $< 63\mu m$ ):  $10^5 - 10^7 \text{ mJ}$ 

**Dust explosion class** See remarks.

Dust / powder (particle size <63  $\mu$ m): max. explosion pressure = 8,7 bar Remarks

Max. increasing of pressure = 77 bar/sec

In case of potential hazardous local circumstances, ADDCON advises the customer to take

proper measures on the hardware / procedures to eliminate the risk of explosions.

More detailed information on the physical and chemical properties can be requested from the

supplier.

# 10. Stability and reactivity

Stability Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid Exposure to sources of heat, sources of ignition, open flame. Materials to avoid Oxidizing substances, strong acids and bases; moisture.

Hazardous decomposition

In case of fire: see section 5. products

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### **ADDCON XF SUPERFINE**



## 11. Toxicological information

Potential acute health effects

**Inhalation** Dust may cause irritation.

**Ingestion** By ingestion of large amounts may cause harmful.

**Skin contact** Contact may cause transient irritation.

**Eye contact** Contact may cause irritation. Causes serious eye damage.

#### **Acute toxicity**

Product / ingredient name	Result	Species	Dose	Exposure
Benzoic acid	LD50 Oral	Rat	1700 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LC50 Inhalativ	Rat	12,2 mg/l	4 h
Calcium formate	LD50 oral	Rat – male	2650 mg/kg	OECD 401

#### **Primary irritation**

Product / ingredient name	Test	Species	Evaluation	Method
Benzoic acid	Irritation	Rabbit	Irritate	
Calcium formate	Irritation – skin Irritation – eyes	Rabbit	Non-Irritate corrosive	OECD 404 OECD 405

**Sensitization** May cause sensibilization.

Potential chronic health effects

Chronic effectsNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Chronic toxicity No specific data.

Carcinogenicity Not listed by ACGIH, IARC, or NTP.

Mutagenicity

Product / ingredient name	Test	Experiment	Result
Calcium formate	OECD 471	In vitro	negative

Teratogenicity No specific data.

Reproductive toxicity No specific data.

Conclusion / summary

**Remarks** The product is not tested. All information are from the pure ingredients.

# 12. Ecological information

Environmental effects Readily biodegradable. This product shows a low bioaccumulation potential.

#### **Aquatic ecotoxicity**

Product / ingredient name	Test	Result	Species	Exposure
Benzoic acid	LC50	44.6 mg/l	Fish	96 h
	EC50	102 mg/l	Daphnie	24h
	FC50	252 mg/l	Fish	48h

## Persistence / degradability

Aquatic 'half-life	Photolysis	Biodegradability
		BOD(28)/COD:
		>70 % (OECD 301)
		Readily
		BOD(28):86 %
		(OECD 306)
	Aquatic nair-lire	Aquatic nair-lire Photolysis

Product / ingredient name	LogP <sub>ow</sub>	BCF	Potential
Calcium formate	-2,3		low

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#### **ADDCON XF SUPERFINE**



# 12. Ecological information

Other adverse effects No known significant effects or critical hazards.

AOX

The product does not contain organically bound halogens which could lead to an AOX

(Absorbable Organically bound Halogens) value in waste water.

**Mobility** For data on physical state and solubility see section 9.

### 13. Disposal considerations

Methods of disposal (waste of residues; contaminated packaging)

Examine possibilities for re-utilisation. Product residues and un-cleaned empty containers should be packaged, sealed, labelled and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When un-cleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWL.

# 14. Transport information

#### International transport regulations

Regulatory information	UN - Number	Proper shipping name	class	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-	-	-
ADNR Class	Not regulated	-	-	-	=	-
IMDG Class	Not regulated	-	-	-	-	-
IATA Class	Not regulated	-	-	-	•	•

PG\*: Packing group

# 15. Regulatory information

According to EU directives 67/548/EEC and 1999/45/EC this product does not require labelling.

**EC-regulations** 



Xi, irritating

**Risk phrases** 41 – risk of serious eye damage

2 - Keep out of the reach of children.

25 - Avoid contact with eyes.

26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical

Safety phrases advice.

39 - Wear eye/face protection.

45 - In case of accident or feel unwell, seek medical advice immediately (show the label

where possible).

WGK (water danger/protection): 1

Remarks United Kingdom Occupational Exposure Limits / maximum Exposure Limits

Canadian Environmental Protection Act (CEPA): The ingredients are on the Domestic Substances List (DSL) and are acceptable for use under the provisions of CEPA.

US Federal: The ingredients are listed on the TSCA inventory. The product has GRAS status.

#### 16. Other information

Full text of R phrases referred to R22 / H302 - harmful if swallowed

in sections 2 and 3 – United R36 / H319 – irritating to eyes / risk of serious damages to eyes

Kingdom (UK) R41 / H318 – causes serious eye damage Xn – harmful

Full text of classifications referred to in sections 2 and 3 – United Kingdom (UK)

Xi – irritating GHS05 - corrosive GHS07 - Warning Department QS, AS

 Information
 Department QS, AS Tel.: +49 (0) 3493 899899-5

 Internal code
 SDB\_AXFSF\_E\_0003

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### **ADDCON XF SUPERFINE**



## 16. Other information

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 18.03.2014

 Date of issue
 20.08.2013

Version 5

#### Notice to reader

The information contained in the Safety Data Sheet is based on our data available on the data 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 them 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.

Training advice Handling of this substance or preparation is restricted to skilled personal only.

Source of key data Literature data and/or investigation reports are available through the manufacturer.

Alterations compared to the previous version are marked with a little (blue) triangle.

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