

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name **BETONFIX KIMIFER da KG 5**

1.2 Use of the substance / preparation

1.3 Company identification

Name **KIMIA S.p.A.**
Full address **Via del Rame, 73**
District and Country **06134 Ponte Felcino (PG) Italia**
Tel. **0755918071**
Fax **0755913378**
e-mail address of the competent person responsible for the Safety Data Sheet **laboratorio@kimia.it**

1.4 Emergency telephone

For urgent inquiries refer to **0755918071**

2. Hazards Identification.

2.1 Substance/Preparation Classification.

This product is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: **Xi-N**

R phrases: **36/37/38-43-51/53**

2.2 Danger Identification.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

3. Composition / Information on ingredients.

Contains:

Name.	Concentration % (C).	Classification.
Bis(ortofosfato) di trizincio	3,5<= C <4	N R 50/53
C.A.S. number 7779-90-0		
EC number 231-944-3		
INDEX number 030-011-00-6		
MISCELA COMPLESSA DI SILICATI, ALLUMINATI ED ALLUMINO FERRITI DI CALCIO	47,5<= C <50	R 36/37/38 Xi R 43

The complete text of -R- phrases is specified in section 16.

4. First aid measures.

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.
SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.
INHALATION: Remove to open air. If breathing is irregular, seek medical advice.
INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of foam.

6. Accidental release measures.

PERSONAL PRECAUTIONS

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the area in which the leak occurred. If there are no contraindications, spray powder with water to prevent the formation of dust. Use breathing equipment if powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.

ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewer system, surface water, ground water and neighbouring areas.

METHODS FOR CLEANING UP

Use spark proof mechanical tools to collect the leaked product and place in a plastic container. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7. Handling and storage.

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity. Refer to the other sections of this data sheet for information relating to health and environmental risks.

8. Exposure control / personal protection.

8.1 Exposure limit values.

Name	Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	
Bis(ortofosfato) di trizinco	TLV		10				
MISCELA COMPLESSA DI SILICATI, ALLUMINATI ED ALLUMINO FERRITI DI CALCIO	TLV-ACGIH		10				

TLV of solvent mixture: 0 mg/m3.

8.2 Exposure controls.

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Wash hands accurately with soap and water before meals and at the end of the work shift.

9. Physical and chemical properties.

Colour	grey
Odour	no odour
Appearance	powder
Solubility	slightly soluble
Viscosity	Not available.
Vapour density	Not available.
Evaporation Rate	Not available.
Reactive Properties	Not available.
Partition coefficient: n-octanol/water	Not available.
pH.	Not available.
Boiling point.	Not available.
Flash point.	> 60 °C.
Explosive properties.	Not available.
Vapour pressure.	Not available.
Specific gravity.	1,200 Kg/l
Solid content:	85,16 %
VOC (Directive 1999/13/EC) :	0
VOC (volatile carbon) :	0

10. Stability and reactivity.

The product is stable in normal conditions of use and storage. Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health.

11. Toxicological information.

Acute effects: stinging eyes. Symptoms may include rubescence, edema, pain and lachrymation. Vapour inhalation may moderately irritate the lower and upper respiratory tract and cause cough and respiratory disorders. At higher concentrations, it may also cause pulmonary edema. Contact with skin may cause irritation, erythema, dryness and chapped skin. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurves, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

Bis(ortofosfato) di trizinco
EC50 (48h): < 0,15 mg/l ALGHE

13. Disposal consideration.

Consider the possibility of burning the product in a suitable incenerator.

Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR/RID Class: 9 UN: 3077
Packing Group: III
Label: 9
Nr. Kemler: 90



Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Bis(ortofosfato) di trizinco)

Carriage by sea (shipping):

IMO Class: 9 UN: 3077
Packing Group: III
Label: 9
EMS: F-A, S-F
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Bis(ortofosfato) di trizinco)

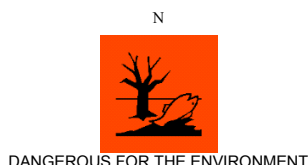


Transport by air:

IATA: 9 UN: 3077
Packing Group: III
Label: 9
Cargo:
Packaging instructions: 911 Maximum quantity: 400 Kg
Pass.:
Packaging instructions: 911 Maximum quantity: 400 Kg
Special Instructions: A97



15. Regulatory information.



- R 36/37/38** IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R 43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R 51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
- S 24/25** AVOID CONTACT WITH SKIN AND EYES.
S 26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S 29 DO NOT EMPTY INTO DRAINS.
S 37 WEAR SUITABLE GLOVES.
S 61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

Contains: MISCELA COMPLESSA DI SILICATI, ALLUMINATI ED ALLUMINO FERRITI DI CALCIO

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

16. Other information.

Text of -R- phrases quoted in section 3 of the sheet.

- R 36/37/38** IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R 43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R 50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament;
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
5. The Merck Index. - 10th Edition;
6. Handling Chemical Safety;

- 7. Niosh - Registry of Toxic Effects of Chemical Substances;
- 8. INRS - Fiche Toxicologique (toxicological sheet);
- 9. Patty - Industrial Hygiene and Toxicology;
- 10. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review.

The following sections were modified:

08 / 09