



The Chemical Company

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 25.11.2009

Product: **LIBFER® SP**

Version: 1.0

(30483218/SDU_GEN_EU/EN)

Date of print 05.12.2009

1. Substance/preparation and company identification

LIBFER® SP

Use: Micronutrient

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-44676

Telefax number: +49 621 60-6644676

E-mail address: detergents-formulators@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Composition/Information on Ingredients

Chemical nature:

Mixture of metal chelates and salts

The product contains no substances classified as hazardous to health or the environment in concentrations which should be taken into account according to EC directives

3. Hazards Identification

Classification not required

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Hazards:

May cause slight skin irritation, especially with repeated or prolonged exposure.

May cause some eye irritation which should cease after removal of the product.

4. First-aid Measures**If inhaled:**

Move to fresh air. Seek medical attention if you feel unwell or if exposure prolonged.

On skin contact:

Remove contaminated clothing. Wash affected skin with soap and plenty of water.

On contact with eyes:

Rinse immediately with plenty of water for at least 10 minutes taking care to wash under the eyelids. If irritation persists, seek medical attention.

On ingestion:

Do NOT induce vomiting. Check breathing and pulse. Place victim in the recovery position, cover and keep warm. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention. Rinse mouth and then drink plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

5. Fire-fighting Measures**Suitable extinguishing media:**

water spray

Unsuitable extinguishing media for safety reasons:

water jet

Combustion products:

Carbon oxides.

Special protective equipment:

Chemical protection suit, suitable gloves, boots and self contained breathing apparatus.

6. Accidental Release Measures**Personal precautions:**

Use personal protective clothing.

Environmental precautions:

Prevent entry into sewage systems, ground and surface waters.

Methods for cleaning-up or taking-up:

Scoop into marked containers for disposal as chemical waste.

7. Handling and Storage**Handling**

Avoid dust formation.

Storage requirements:

Avoid wet or humid conditions.

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Store away from food and animal feedstuffs.

8. Exposure Controls and Personal Protection

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Rubber or plastic gloves.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

Skin and body protection:

Lightweight protective clothing.

9. Physical and Chemical Properties

Form:	Dry flowable granules
Colour:	red to black
Odour:	mild
pH value:	8 - 9 (10 g/l)
Melting point:	Not applicable
Boiling point:	Not applicable
Flash point:	Not applicable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Explosion hazard:	Not applicable
Fire promoting properties:	Not applicable
Vapour pressure:	Not tested
Density:	Not tested
Bulk density:	650 kg/m ³
Relative vapour density (Air):	Not tested
Solubility in water:	approx. 120 g/l (20 °C)
Solubility:	Not tested
Partitioning coefficient n-octanol/water (log Pow):	Not applicable
Viscosity, dynamic:	Not tested
Evaporation rate:	Not applicable

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme temperatures. Avoid humidity.

Materials to avoid:

strong bases, oxidizing agent

Hazardous decomposition products:

No decomposition expected under normal storage conditions.

11. Toxicological Information

Acute oral toxicity:

rat /LD50 : > 2,000 mg/kg

By analogy with a product of similar composition

Acute dermal toxicity:

Not tested

Acute inhalation toxicity:

Not tested

Skin irritation/corrosion:

not classified (Conventional method)

Eye irritation/corrosion:

not classified (Conventional method)

Skin Sensitization:

Not tested

12. Ecological Information

Toxicity to fish:

> 100 mg/l

By analogy with a product of similar composition

Toxicity to aquatic invertebrates:

Not tested

Toxicity to aquatic plants:

Not tested

Toxicity to microorganisms:

Not tested

Assessment of aquatic toxicity:

Not expected to be harmful to the aquatic environment.

Biodegradation:

Not tested

13. Disposal Considerations

Waste from residue/unused products:

Observe all local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

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14. Transport Information

Land transport (ADR):

Not classified as a dangerous good under transport regulations.

Land transport (RID):

Not classified as a dangerous good under transport regulations.

Sea transport (IMDG):

Not classified as a dangerous good under transport regulations.

Air transport (ICAO/IATA):

Not classified as a dangerous good under transport regulations.

15. Regulatory Information

Regulations of the European Union (Labelling) / National legislation/regulations

Classification not required

16. Other Information

Use:

Restricted use:

THIS MATERIAL IS NOT INTENDED FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES, BODY FLUIDS OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, IS SPECIFICALLY INTENDED, UNLESS THE FINISHED PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH NATIONALLY AND INTERNATIONALLY APPLICABLE SAFETY TESTING REQUIREMENTS. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, CIBA IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR SUCH USES.

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