

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Page: 1/9

Version: 2.0

(50353095/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Lupasol® FT WF

#### Recommended use of the chemical and restriction on use

Recommended use\*: Adhesion promoter

\* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Synonyms: polyethyleneimine. Use: formulation auxiliary for the chemical industry

### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Skin Sens.	1B	Skin sensitization
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

#### Label elements

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Version: 2.0

Page: 2/9

(50353095/SDS\_GEN\_US/EN)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P333 + P311	If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P362	IF ON SKIN (or hair): Wash with plenty of soap and water.
P301 + P330	IF SWALLOWED: rinse mouth.
P362 + P364	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
------	---

### Hazards not otherwise classified

#### Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 100 % dermal

#### **According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

### Emergency overview

WARNING:

Harmful if swallowed.

Irritating to eyes.

Skin sensitizer.

Toxic to aquatic organisms.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing.

Wear suitable protective clothing, gloves and eye/face protection.

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23  
Version: 2.0

Page: 3/9  
(50353095/SDS\_GEN\_US/EN)

### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
Trade Secret	100.0 %	Proprietary polymers

**According to Regulation 1994 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
Trade Secret	100.0 %	Proprietary polymers

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Wash affected areas thoroughly with soap and water. Seek medical attention. Remove contaminated clothing.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Seek medical attention.

##### If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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

##### Note to physician

Treatment:	Treat according to symptoms (decontamination, vital functions), no known specific antidote.
------------	---

### 5. Fire-Fighting Measures

#### Extinguishing media

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Version: 2.0

Page: 4/9

(50353095/SDS\_GEN\_US/EN)

Suitable extinguishing media:  
water spray, dry powder, foam

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

---

## 6. Accidental release measures

### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, section 8.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Place absorbed material in the same container as the spilled substance/product for disposal.

---

## 7. Handling and Storage

### Precautions for safe handling

### Conditions for safe storage, including any incompatibilities

Segregate from acids and bases. Segregate from strong oxidizing agents.

Suitable materials for containers: Low density polyethylene (LDPE), glass, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Protect from temperatures above: 40 °C

---

## 8. Exposure Controls/Personal Protection

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Page: 5/9

Version: 2.0

(50353095/SDS\_GEN\_US/EN)

### Personal protective equipment

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Safety glasses with side-shields.

#### **Body protection:**

Impermeable protective clothing

#### **General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Remove contaminated clothing.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	product specific	
Odour threshold:		No data available.
Colour:	colourless to yellowish	
pH value:	approx. 11	( 1 %(m)) (DIN 19268)
solidification temperature:	approx. -23 °C	
boiling temperature:	> 200 °C	
Flash point:	> 200 °C	(DIN 51758)
Flammability:	not self-igniting	
Autoignition:	> 200 °C	(DIN 51794)
Vapour pressure:		not determined
Density:	approx. 1.10 g/cm3	( 20 °C) (DIN 51757)
Relative density:		No data available.
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Self-ignition temperature:		not self-igniting
Thermal decomposition:	> 250 °C	
Viscosity, dynamic:	approx. > 200,000 mPa.s	( 20 °C)
Solubility in water:		fully soluble
Solubility (qualitative):	solvent(s): distilled water, alcohols, Methanol, Ethanol, 1-Propanol, 2-Propanol	
Molar mass:	approx. 25,000 g/mol	
Evaporation rate:		No data available.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### **Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Version: 2.0

Page: 6/9

(50353095/SDS\_GEN\_US/EN)

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

No conditions known that should be avoided.

### Incompatible materials

strong oxidizing agents, strong bases, strong acids, reactive chemicals

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition:

> 250 °C

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Oral

Type of value: LD50

Species: rat

Value: 300 - 2,000 mg/kg

#### Skin

Species: rabbit

Result: non-irritant

Method: Draize test

#### Eye

Species: rabbit

Result: Irritant.

Method: similar to OECD guideline 405

#### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

### Chronic Toxicity/Effects

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Version: 2.0

Page: 7/9

(50353095/SDS\_GEN\_US/EN)

### Genetic toxicity

Assessment of mutagenicity: No data available.

### Carcinogenicity

Assessment of carcinogenicity: No data available.

### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

### Teratogenicity

Assessment of teratogenicity: No data available.

### Other Information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

## Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

## 12. Ecological Information

### Toxicity

#### Toxicity to fish

LC50 (96 h) 1 - 10 mg/l, Brachydanio rerio

#### Aquatic invertebrates

EC50 (48 h) 10 - 100 mg/l, Daphnia magna

### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### Persistence and degradability

#### Elimination information

Poorly biodegradable.

Well eliminable from water by adsorption on activated sludge.

### Mobility in soil

#### Assessment transport between environmental compartments

not determined

### Additional information

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels.

# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23  
Version: 2.0

Page: 8/9  
(50353095/SDS\_GEN\_US/EN)

### 13. Disposal considerations

**Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

**Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

### 14. Transport Information

**Land transport**

USDOT

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains POLYETHYLENEIMINE)

**Sea transport**

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains POLYETHYLENEIMINE)

**Air transport**

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains POLYETHYLENEIMINE)

### 15. Regulatory Information

**Federal Regulations****Registration status:**

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Acute;



# Safety Data Sheet

## Lupasol® FT WF

Revision date : 2015/02/23

Page: 9/9

Version: 2.0

(50353095/SDS\_GEN\_US/EN)

---

**NFPA Hazard codes:**

Health : 2      Fire: 1      Reactivity: 0      Special:

**HMIS III rating**

Health: 2      Flammability: 1      Physical hazard: 1

---

### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2015/02/23

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

---

Lupasol® FT WF is a registered trademark of BASF Corporation or BASF SE  
IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET