

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17

Version: 2.0

Page: 1/9

(30044057/SDS\_GEN\_MX/EN)

### 1. Identification

#### Product identifier used on the label

## Lutensol® TO 5

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

Recommended use\*: Chemical

Suitable for use in industrial sector: chemical industry

\* 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 Mexicana S.A. de C.V.  
Av. Insurgentes Sur 975  
Col. CD. De Los Deportes, C.P. 03710,  
MEXICO

Telephone: +52 55 5325 2600

#### Emergency telephone number

Tel.: +1-800-849-5204 or +1-833-229-1000  
CHEMTREC Int.: +1-703-527-3887

#### Other means of identification

Synonyms: ISOTRIDECANOLETHOXYLATE

### 2. Hazards Identification

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

#### Classification of the product

|                 |   |  |
|-----------------|---|--|
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation              |
| Aquatic Acute   | 2 | Hazardous to the aquatic environment - acute   |
| Aquatic Chronic | 3 | Hazardous to the aquatic environment - chronic |

#### Label elements

Pictogram:

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17  
Version: 2.0

Page: 2/9  
(30044057/SDS\_GEN\_MX/EN)



Signal Word:  
Danger

Hazard Statement:

H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.  
H401 Toxic to aquatic life.

Precautionary Statements (Prevention):

P280 Wear eye/face protection.  
P273 Avoid release to the environment.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately 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

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):

This classification is based on the current CESIO recommendations. This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

---

### 3. Composition / Information on Ingredients

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

This product does not contain any components classified as hazardous under the referenced regulation.

**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>   |
|-------------------|----------------------|------------------------|
| 69011-36-5        | 60.0 - 100.0 %       | isotridecanoethoxylate |

---

### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**

Remove contaminated clothing.

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17  
Version: 2.0

Page: 3/9  
(30044057/SDS\_GEN\_MX/EN)

---

### **If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

### **If on skin:**

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

### **If in eyes:**

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

### **If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

## **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., Further important symptoms and effects are so far not known.

## **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**

Suitable extinguishing media:  
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
water jet

### **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:  
Wear a self-contained breathing apparatus.

### **Further information:**

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. Forms slippery surfaces with water.

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17  
Version: 2.0

Page: 4/9  
(30044057/SDS\_GEN\_MX/EN)

### Personal precautions, protective equipment and emergency procedures

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

### Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material.

Dispose of absorbed material in accordance with regulations.

---

## 7. Handling and Storage

### Precautions for safe handling

Protect against moisture. Shut containers immediately after taking product because product takes up the humidity of air. No special measures necessary provided product is used correctly.

Protection against fire and explosion:  
No special precautions necessary.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

---

## 8. Exposure Controls/Personal Protection

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Tightly fitting safety goggles (chemical goggles).

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

---

## 9. Physical and Chemical Properties

|                  |                  |                |
|------------------|------------------|----------------|
| Form:            | liquid           |                |
| Odour:           | product specific |                |
| Odour threshold: |                  | not determined |

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17

Page: 5/9

Version: 2.0

(30044057/SDS\_GEN\_MX/EN)

|   |   |  |
|---|---|--|
| Colour:   | colourless  |  |
| pH value:   | approx. 7   | ( 50 g/l, 20 °C)   |
| solidification temperature:                         | < 5 °C  | ( 1,013 hPa)   |
| drop point:   | approx. 14 °C   |  |
| Boiling point:                                      |   | not applicable   |
| Flash point:  | > 150 °C  | (DIN 51758)  |
| Flammability:                                       | not self-igniting   |  |
| Lower explosion limit:                              |   | For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point. |
| Upper explosion limit:                              |   | For liquids not relevant for classification and labelling.   |
| Autoignition:                                       | > 200 °C  | (DIN 51794)  |
| Vapour pressure:                                    | < 0.1 hPa   | ( 20 °C)   |
| Density:  | 0.96 g/cm <sup>3</sup>  | ( 23 °C)   |
| 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:                              | > 200 °C  |  |
| Viscosity, dynamic:                                 | 80 mPa.s  | ( 23 °C)   |
| Particle size:                                      |   | The substance / product is marketed or used in a non solid or granular form.   |
| Solubility in water:                                |   | partly soluble   |
| Miscibility with water:                             |   | partly miscible  |
| Solubility (qualitative):                           | soluble   |  |
| Evaporation rate:                                   | solvent(s): alcohols, aromatic hydrocarbons, mineral oils,  | not determined   |
| 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.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### Chemical stability

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

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### Incompatible materials

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17

Version: 2.0

Page: 6/9

(30044057/SDS\_GEN\_MX/EN)

caustics, halogens, Alkalines, acids, reactive chemicals

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 200 °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: > 5,000 mg/kg (BASF-Test)

#### Inhalation

Species: rat

Value: (IRT)

Exposure time: 7 h

Analogous: Assessment derived from products with similar chemical character.

No mortality within the stated exposition time as shown in animal studies.

#### Skin

Species: rabbit

Result: Slightly irritating.

Method: OECD Guideline 404

#### Eye

Species: rabbit

Result: Risk of serious damage to eyes.

Method: OECD Guideline 405

#### Sensitization

Assessment of sensitization: No data available.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Other Information

Caution - substance not yet fully tested.

### Symptoms of Exposure

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17  
Version: 2.0

Page: 7/9  
(30044057/SDS\_GEN\_MX/EN)

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

## 12. Ecological Information

### Toxicity

#### Toxicity to fish

LC50 (96 h) > 1 - < 10 mg/l, *Leuciscus idus* (DIN 38412 Part 15)

#### Aquatic invertebrates

EC50 (48 h) > 1 - < 10 mg/l, *Daphnia magna*

#### Aquatic plants

EC50 (72 h) > 1 - < 10 mg/l

#### Chronic toxicity to fish

No observed effect concentration > 0.1 - < 1 mg/l  
Literature data.

#### Chronic toxicity to aquatic invertebrates

No data available.

### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

DIN 38412 Part 8 EC10 (17 h): > 2,500 mg/l

### Persistence and degradability

#### Elimination information

>= 90 % Bismuth-active substance (mod. OECD 301E)

> 60 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily biodegradable.

### Mobility in soil

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is possible.

### Additional information

#### Sum parameter

Chemical oxygen demand (COD): 2,438 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17  
Version: 2.0

Page: 8/9  
(30044057/SDS\_GEN\_MX/EN)

---

### 13. Disposal considerations

**Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

**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**

TDG

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

---

### 15. Regulatory Information

**Federal Regulations**

Not applicable

**NFPA Hazard codes:**

Health : 3      Fire: 1      Reactivity: 0      Special:

**HMIS III rating**

Health: 3      Flammability: 1      Physical hazard: 0

---

### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2015/02/17

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



# Safety Data Sheet

## Lutensol® TO 5

Revision date : 2015/02/17

Page: 9/9

Version: 2.0

(30044057/SDS\_GEN\_MX/EN)

---

operations on society and the environment during production, storage, transport, use and disposal of our products.

---

Lutensol® TO 5 is a registered trademark of BASF Mexicana 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