

# Polysorbate 20

## Safety data sheet

### T-Maz\* 20

Revision date : 2006/06/01 Page: 1/6

Version: 1.1 (30085250/MDS\_GEN\_US/EN)

#### 1. Substance/preparation and company identification

Company 24 Hour Emergency Response Information

BASF CORPORATION

100 Campus Drive

Florham Park, NJ 07932, USA

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP

Synonyms: POE(20) SORBITAN MONOLAURATE

#### 2. Composition/information on ingredients

**CAS Number Content (W/W) Chemical name**

9005-64-5 100.0 % Sorbitan monolaurate, ethoxylated

10191-41-0 100.0 PPM D,L-alpha-Tocopherol

#### 3. Hazard identification

##### Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

Use with local exhaust ventilation.

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

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Wear chemical resistant protective gloves.

Eye wash fountains and safety showers must be easily accessible.

##### Potential health effects

##### Primary routes of exposure

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

##### Sensitization:

Caused sensitization in animal studies.

##### Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

See MSDS section 11 - Toxicological information.

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#### 4. First-aid measures

##### General advice:

Immediately remove contaminated clothing.

##### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Seek medical attention.

##### If on skin:

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

##### If in eyes:

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

Seek medical attention.

##### If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

##### Note to physician

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

## 5. Fire-fighting measures

Flash point: > 149 °C (ASTM D93)

### Suitable extinguishing media:

water spray, dry extinguishing media, foam

### Protective equipment for fire-fighting:

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

### Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

### NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

## 6. Accidental release measures

### Personal precautions:

Use personal protective clothing.

### Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

### Cleanup:

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.

### Further information:

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

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## 7. Handling and storage

### Handling

#### General advice:

No special measures necessary provided product is used correctly.

#### Protection against fire and explosion:

No special precautions necessary.

### Storage

#### Storage incompatibility:

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

## 8. Exposure controls and personal protection

### Advice on system design:

Provide adequate exhaust ventilation to control work place concentrations.

### 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

Consult with glove manufacturer for testing data.

#### Eye protection:

Tightly fitting safety goggles (chemical goggles).

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing.

## 9. Physical and chemical properties

Form: liquid

Odour: mild

Colour: yellow

pH value: No data available.  
Boiling point: > 149 °C ( 1,013 hPa)  
Vapour pressure: < 1.3 hPa ( 25 °C)  
Density: 1.1 g/cm<sup>3</sup> ( 25 °C)  
Relative density: 1.1 ( 25 °C)  
% volatiles: < 4 %

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#### 10. Stability and reactivity

##### Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.  
The product is chemically stable.

##### Decomposition products:

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

##### Corrosion to metals:

No corrosive effect on metal.

#### 11. Toxicological information

##### Acute toxicity

###### Oral:

LD50/rat: > 5,000 mg/kg (BASF-Test)

###### Dermal:

LD50/rabbit: 3,000 mg/kg

Literature data.

###### Skin irritation:

rabbit: non-irritant

Literature data.

###### Eye irritation :

rabbit: non-irritant

Literature data.

###### Sensitization:

Guinea pig maximization test/guinea pig: sensitizing

Literature data.

###### Chronic toxicity

###### Genetic toxicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

###### Developmental toxicity/teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

###### Other information:

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

#### 12. Ecological information

##### Environmental fate and transport

###### Biodegradation:

Test method: OECD 303A; ISO 11733; 92/69 EEC,V, C.10 (aerobic), activated sludge

Method of analysis: DOC reduction

Degree of elimination: > 70 % (28 d)

Evaluation: Biodegradable.

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##### Bioaccumulation:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

## Environmental toxicity

### Acute and prolonged toxicity to fish:

DIN 38412 Part 15 static

golden orfe/LC50 (96 h): approx. 340 mg/l

The details of the toxic effect relate to the nominal concentration.

### Acute toxicity to aquatic invertebrates:

static

Daphnia magna/EC50 (48 h): > 10 mg/l

Literature data. The details of the toxic effect relate to the nominal concentration.

### Toxicity to aquatic plants:

green algae/EC50: approx. 100 mg/l

The details of the toxic effect relate to the nominal concentration.

### Chronic toxicity to aquatic invertebrates:

Daphnia magna No observed effect concentration (21 d) 10 mg/l

Literature data.

The details of the toxic effect relate to the nominal concentration.

### Other ecotoxicological advice:

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

## 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

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

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## 15. Regulatory information

### Federal Regulations

#### Registration status:

TSCA, US released / listed

**OSHA hazard category:** Chronic target organ effects reported, Sensitizer

**SARA hazard categories (EPCRA 311/312):** Chronic

### State regulations

#### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## 16. Other information

### HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

### Local contact information

prod\_reg@basf.com

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