

# Safety Data Sheet

## Pluronic® 25R2

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Version: 3.0

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(30084511/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Pluronic® 25R2

#### 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 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

Chemical family: polyglycol

Synonyms: Polyoxypropylene-polyoxyethylene Block Copolymer

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### 2. Hazards Identification

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

#### Classification of the product

No need for classification according to GHS criteria for this product.

#### Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

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### Hazards not otherwise classified

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

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.

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### 3. Composition / Information on Ingredients

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

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air.

##### If on skin:

Wash thoroughly with soap and water.

##### If in eyes:

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

##### If swallowed:

Rinse mouth and then drink plenty of water.

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

Symptoms: No significant symptoms are expected due to the non-classification of the product.

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

##### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam

#### Special hazards arising from the substance or mixture

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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 in confined areas or when exposed to combustion products.

### **Further information:**

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

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## 6. Accidental release measures

### **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.

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## 7. Handling and Storage

### **Precautions for safe handling**

Keep container tightly closed. Protect from the effects of light.

Protection against fire and explosion:

No special precautions necessary.

### **Conditions for safe storage, including any incompatibilities**

Further information on storage conditions: Keep in a cool place.

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## 8. Exposure Controls/Personal Protection

### **Advice on system design:**

Provide local exhaust ventilation to control vapours/mists.

### **Personal protective equipment**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) respirator as necessary.

#### **Hand protection:**

Chemical resistant protective gloves

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### Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

### Body protection:

Body protection must be chosen based on level of activity and exposure.

### General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Do not eat, drink or use tobacco while working.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	mild, of polyol	
Colour:	clear	
pH value:	5 - 7.5	
Freezing point:	approx. -5 °C ( 1,013 hPa)	
Boiling point:	> 149 °C	
Flash point:	> 227 °C	(ASTM D92)
Vapour pressure:	< 0.1 mmHg ( 25 °C)	
Density:	1.039 g/cm <sup>3</sup> ( 20 - 25 °C)	
Relative density:	1.039	
Partitioning coefficient n-octanol/water (log Pow):	-1.58	(calculated)
Viscosity, dynamic:	680 mPa.s ( 25 °C)	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	soluble	
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:

No corrosive effect on metal.

### 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

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

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### Hazardous decomposition products

Decomposition products:

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

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## 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

#### Acute toxicity

Assessment of acute toxicity: No data available.

#### Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

#### Inhalation

No data available.

#### Dermal

Type of value: LD50

Species: rabbit

Value: 10,200 mg/kg

#### Assessment other acute effects

No data available.

#### Eye

Species: rabbit

Result: non-irritant

Method: Draize test

#### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

#### Buehler test

Species: guinea pig

Result: Non-sensitizing.

No sensitizing effect.

#### Aspiration Hazard

No data available.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Experimental/calculated data: dog (beagle) (male/female) oral feed 90 days 5000, 10000, 20000 ppm in diet

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NOAEL: 10,000 ppm diet  
rat (male/female) oral feed 90 days 5000, 10000, 20000 ppm in diet  
NOAEL: 20000 ppm diet

### Genetic toxicity

Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Genetic toxicity in vitro: No data available.

### Carcinogenicity

Assessment of carcinogenicity: No data available.

### Reproduction

Experimental/calculated data: One generation study rat oral feed 5000, 10000, 20000 ppm diet

NOAEL Mat.: 20000 ppm diet

NOAEL F1: 20000 ppm diet

### 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

No significant symptoms are expected due to the non-classification of the product.

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## 12. Ecological Information

### Toxicity

#### Toxicity to fish

LC50 (96 h) 105 mg/l, *Oncorhynchus mykiss*

#### Aquatic invertebrates

EC50 (48 h) 1,033 mg/l, *Daphnia magna*

#### Aquatic plants

EC50 (72 h) 370 mg/l, algae

### Persistence and degradability

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

#### Elimination information

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

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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:

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

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### 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 accordance with national, state and local regulations.

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### 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:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### CERCLA RQ

100 LBS

10 LBS

#### CAS Number

75-56-9; 123-91-1

75-21-8

#### Chemical name

Propylene oxide; 1,4-dioxane

Ethylene Oxide

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

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**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**NFPA Hazard codes:**

Health: 0      Fire: 1      Reactivity: 0      Special:

**HMIS III rating**

Health: 0      Flammability: 1      Physical hazard: 0

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2018/02/28

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