

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 08.05.2012

Version: 2.0

Product: **Kolliphor® P 407**

(ID no. 30555080/SDS\_GEN\_GB/EN)

Date of print 09.05.2012

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

## Kolliphor® P 407

Chemical name: Oxirane, methyl-, polymer with oxirane

CAS Number: 9003-11-6

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: pharmaceutical excipient

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

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Telephone: +44 161 485-6222

E-mail address: product-safety-north@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Label elements

| Globally Harmonized System, EU (GHS)

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

According to Directive 67/548/EEC or 1999/45/EC

as in Annex VI of Directive 67/548/EEC

The product does not require a hazard warning label in accordance with EC Directives.

### **Classification of the substance or mixture**

According to Regulation (EC) No 1272/2008 [CLP]

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

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:  
No particular hazards known.

### **Other hazards**

According to Regulation (EC) No 1272/2008 [CLP]

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

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## **3. Composition/Information on Ingredients**

### **Substances**

Chemical nature

block copolymer

| Oxirane, methyl-, polymer with oxirane

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## **4. First-Aid Measures**

### **Description of first aid measures**

| Remove contaminated clothing.

If inhaled:

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

On skin contact:

| Wash thoroughly with soap and water.

On contact with eyes:

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

On ingestion:

| 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**

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

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**5. Fire-Fighting Measures****Extinguishing media**

Suitable extinguishing media:  
dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

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

harmful vapours

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

**Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

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.

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**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, chapter 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 small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust.

**Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## 7. Handling and Storage

### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1).

Conditions for safe storage, including any incompatibilities Further information on storage conditions:  
Keep container tightly closed and dry. Protect against heat.

Storage stability:

Storage temperature: ≤ 25 °C

Protect from temperatures above: 30 °C

The packed product must be protected against exceeding the indicated temperature.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Control parameters

Components with workplace control parameters

none

### Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

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

General safety and hygiene measures

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Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form: powder, coarse particle, waxy type  
Colour: white  
Odour: faint specific odour  
pH value: 6 - 9  
(50 g/l)  
melting range: 53 - 57 °C  
Flash point: > 150 °C  
Solubility in water:  
> 175 g/l  
(23 °C)  
Partitioning coefficient n-octanol/water (log Kow): < -5

### Other information

Minimum ignition energy: 10 - 30 mJ  
(6.42 hPa)  
The product is capable of dust explosion.  
Bulk density: approx. 500 kg/m<sup>3</sup>

## 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.

### Chemical stability

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

### Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

### Conditions to avoid

See MSDS section 7 - Handling and storage. Avoid dust formation.

### Incompatible materials

Substances to avoid:  
strong bases, strong acids, oxidizing agents

### Hazardous decomposition products

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

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:  
LD50 rat (oral): > 10.000 mg/kg  
Literature data.

LD50 rabbit (dermal): > 5,000 mg/kg  
Literature data.

#### Irritation

Assessment of irritating effects:  
Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (Draize test)

Serious eye damage/irritation rabbit: non-irritant (Draize test)

#### Germ cell mutagenicity

Assessment of mutagenicity:  
No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Toxicity to fish:  
LC50 (96 h) > 10,000 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)  
The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:  
EC50 (48 h) > 1.10 mg/l, *Ceriodaphnia* sp. (static)

Aquatic plants:  
EC50 (72 h) > 970 mg/l, algae

### **Persistence and degradability**

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

Experience has shown that the product is difficult to eliminate in effluent treatment plants. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Elimination information:

3 % DOC reduction (24 h) (ISO 18749) (aerobic, activated sludge, domestic)

### **Bioaccumulative potential**

Bioaccumulation potential:

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

### **Mobility in soil (and other compartments if available)**

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is possible.

### **Results of PBT and vPvB assessment**

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

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## **13. Disposal Considerations**

### **Waste treatment methods**

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## **14. Transport Information**

### **Land transport**

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

**Inland waterway transport**

ADN

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****Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

**Chemical Safety Assessment**Chemical Safety Assessment not required

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**16. Other Information**

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: [product-safety-north@basf.com](mailto:product-safety-north@basf.com)

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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