

# Safety data sheet

Page: 1/12

BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

### 1. Identification

### **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

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Nutrition and Health

Telephone: +49 621 60-48434

E-mail address: EN-global-safety-data@basf.com

### **Emergency telephone number**

International emergency number: Telephone: +49 180 2273-112

### 2. Hazards Identification

# Classification of the substance or mixture

According to UN GHS criteria

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

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

#### Label elements

### Globally Harmonized System (GHS)

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

### Other hazards

### According to UN GHS criteria

The product is under certain conditions capable of dust explosion. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

# 3. Composition/Information on Ingredients

### **Substances**

### Chemical nature

block copolymer
Oxirane, 2-methyl-, polymer with oxirane
CAS Number: 9003-11-6

# **Mixtures**

Not applicable

### 4. First-Aid Measures

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

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

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.

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

### 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.

# 5. Fire-Fighting Measures

### **Extinguishing media**

Suitable extinguishing media: water spray, foam, dry powder

Unsuitable extinguishing media for safety reasons: water jet

# Special hazards arising from the substance or mixture

Burning produces harmful and toxic fumes.

# 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.

### 6. Accidental Release Measures

Avoid the formation and build-up of dust - danger of dust explosion.

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. 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 suitable appliance and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations.

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

# 7. Handling and Storage

### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

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.

# 8. Exposure Controls/Personal Protection

### **Control parameters**

Components with occupational exposure limits

No occupational exposure limits known.

### **Exposure controls**

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1or FFP1)

Hand protection:

Wear chemical resistant protective gloves.

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)

Body protection:

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

### General safety and hygiene measures

Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Hands and/or face should be washed before breaks and at the end of the shift.

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Form: powder, coarse particle, waxy type

Colour: white

Odour: faint specific odour

Odour threshold:

not applicable

pH value: 6 - 9

(50 g/l) 53 - 57 °C

melting range: Boiling point:

The product is a non-volatile solid.

Flash point: > 150 °C

Evaporation rate:

The product is a non-volatile solid.

Flammability: not highly flammable (VDI 2263, sheet 1, 1.1)

Lower explosion limit:

For solids not relevant for classification and labelling.

Upper explosion limit:

For solids not relevant for classification and labelling.

Vapour pressure:

negligible

Relative vapour density (air):

The product is a non-volatile solid.

Solubility in water:

> 175 g/l (23 °C)

Solubility (qualitative) solvent(s): distilled water

soluble

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Self ignition: Based on its structural properties the

product is not classified as self-

igniting.

Thermal decomposition: 350 °C (DSC (DIN 51007))

Viscosity, dynamic:

not applicable, the product is a solid

Explosion hazard: Product is not explosive, however a

dust explosion could result from an

air / dust mixture.

Fire promoting properties: Based on its structural properties

the product is not classified as

oxidizing.

### Other information

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

Self heating ability: It is not a substance capable of

spontaneous heating.

Minimum ignition energy: 10 - 30 mJ

(6,42 hPa)

The product is capable of dust

explosion.

Bulk density: approx. 500 kg/m3

Hygroscopy: The product has not been tested.

Surface tension: 39,9 mN/m (DIN EN 14370)

(23 °C; 0,5 g/l)

Grain size distribution: No data available.

# 10. Stability and Reactivity

### Reactivity

Corrosion to metals: Corrosive effects to metal are not anticipated.

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

### 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

Avoid dust formation. Avoid deposition of dust.

### 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.

# 11. Toxicological Information

# Information on toxicological effects

Acute toxicity

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

#### Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

#### Experimental/calculated data:

LD50 rat (oral): > 5.000 mg/kg (BASF-Test)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### LC50 rat (by inhalation):

not determined

### LD50 rabbit (dermal): > 2.000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. 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 (OECD Guideline 404)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Respiratory/Skin sensitization

# Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

### Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

# Germ cell mutagenicity

### Assessment of mutagenicity:

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

### Carcinogenicity

### Assessment of carcinogenicity:

No reliable data was available concerning carcinogenic activity.

### Reproductive toxicity

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

Assessment of reproduction toxicity:

No reliable data are available concerning reproduction toxicity.

### Developmental toxicity

Assessment of teratogenicity:

No reliable data was available concerning teratogenicity.

Specific target organ toxicity (single exposure)

Remarks: No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No data available.

**Aspiration hazard** 

not applicable

# 12. Ecological Information

# **Toxicity**

Assessment of aquatic toxicity:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 120 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (Directive 79/831/EEC, static)

Nominal concentration.

Analogous: Assessment derived from products with similar chemical character.

Aquatic plants:

EC50 (72 h) > 100 mg/l (biomass), Scenedesmus subspicatus (DIN 38412 Part 9, static)

Nominal concentration.

Analogous: Assessment derived from products with similar chemical character.

Microorganisms/Effect on activated sludge:

EC50 (30 min) > 1.000 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

Nominal concentration.

Chronic toxicity to fish:

No data available.

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### Persistence and degradability

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria). Poorly biodegradable.

Elimination information:

0 - 10 % DOC reduction (28 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic) Not readily biodegradable (by OECD criteria).

# **Bioaccumulative potential**

Bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

### Mobility in soil

Assessment transport between environmental compartments:

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

Adsorption in soil: Adsorption to solid soil phase is possible.

### Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

#### Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

#### Additional information

Add. remarks environm. fate & pathway:

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

### 13. Disposal Considerations

### Waste treatment methods

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

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

Contaminated packaging:

Uncontaminated packaging can be re-used.

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

# 14. Transport Information

# **Land transport**

**ADR** 

Not classified as a dangerous good under transport regulations

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

RID

Not classified as a dangerous good under transport regulations

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

### **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user:

Transport in inland waterway vessel

Not evaluated

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

### Sea transport

#### **IMDG**

Not classified as a dangerous good under transport regulations

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

### Air transport

#### IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

### Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:
Shipment approved:
Pollution name:
Pollution category:
Ship Type:
Not evaluated
Not evaluated
Not evaluated
Not evaluated
Not evaluated

# 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.

### 16. Other Information

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

Date / Revised: 24.04.2018 Version: 1.1

Product: Kolliphor® P 407

(ID no. 30555080/SDS\_GEN\_00/EN)

Date of print 25.04.2018

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