#### **ChemicalBook**

# Chemical Safety Data Sheet MSDS / SDS

# Lactofen

Revision Date: 2025-02-01 Revision Number: 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name : Lactofen

CBnumber : CB3288630

CAS : 77501-63-4

Synonyms : lactofen,phoenix

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

## **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 010-86108875

# SECTION 2: Hazards identification

#### Classification of the substance or mixture

Acute toxicity - Category 4, Dermal

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 2

#### Label elements

## Pictogram(s)

Signal word Warning

# Hazard statement(s)

H312 Harmful in contact with skin

H411 Toxic to aquatic life with long lasting effects

#### Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P273 Avoid release to the environment.

#### Response

P302+P352 IF ON SKIN: Wash with plenty of water/...

P317 Get medical help.

P321 Specific treatment (see ... on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

#### Storage

none

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

#### **Substance**

Product name : Lactofen

Synonyms : lactofen,phoenix CAS : 77501-63-4

MF : C19H15CIF3NO7

MW : 461.77

# SECTION 4: First aid measures

## **Description of first aid measures**

# If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately.

Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

# Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

# Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

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

no data available

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

# SECTION 5: Firefighting measures

## **Extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

#### **Specific Hazards Arising from the Chemical**

no data available

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

# Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

# Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

# Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# SECTION 8: Exposure controls/personal protection

## **Control parameters**

#### Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

## **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

# Individual protection measures

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

Physical state	neat
Colour	Light to dark amber.
Odour	no data available
Melting point/freezing point	37 - 45 °C. Remarks:No verbal interpretation on the DTA diagram given; reported to have integrated
	the heat released during decomposition starting at 190 °C. Assessed from the Diagram, a higher
	start temperature for decomposition is likely.
Boiling point or initial boiling point and	Remarks:DTA; Exothermic decomposition starts at 214 °C; ISTA: Exothermic decomposition starts at
boiling range	200 °C.
Flammability	no data available
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	136 °C. Atm. press.:1 021 hPa.;136 °C. Atm. press.:1 013 hPa.
Auto-ignition temperature	$375\ ^{\circ}\text{C}.$ Remarks:No pressure is reported in the data summary but it is assumed that the data is
	measured/calculated for standard conditions (1013 hPa).
Decomposition temperature	no data available
рН	7.2. Remarks:Suspension/emulsion measured of the highly viscous technical product. Solubility of
	substance is approximately 0.1 mg/L.
Kinematic viscosity	no data available
Solubility	In water: 0.11 mg/L. Temperature:20 °C. pH:6.7 - 6.8Acetone. Remarks:Miscible with
	acetone.;DMSO. Remarks:Miscible with dimethylsulfoxide.;Xylene. Remarks:Miscible with xylene.

log Pow = 4.6. Temperature:40 °C. Remarks:The reference log Pow-values in the OECD-guideline
presumably refer to 25 °C. The column temperature was 40 °C. However, the influence of this
temperature difference on the calculated log P value lies within the range of the error of the method.
< 0 hPa. Temperature:25 °C.
1.34 g/cm3. Temperature:24 °C.
no data available
no data available

# SECTION 10: Stability and reactivity

# Reactivity

no data available

# **Chemical stability**

no data available

## Possibility of hazardous reactions

no data available

#### Conditions to avoid

no data available

# Incompatible materials

no data available

# Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# Acute toxicity

- Oral: LD100 rat (female) ca. 2 000 mg/kg bw. Remarks: The clinical signs were piloerection, abdominal position, labored breathing.
- Inhalation: LC50 rat (male/female) > 3.4 mg/L air.
- Dermal: LD50 rabbit (male/female) > 2 000 mg/kg bw.

## Skin corrosion/irritation

no data available

# Serious eye damage/irritation

no data available

# Respiratory or skin sensitization

no data available

## Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

## Reproductive toxicity

no data available

## STOT-single exposure

no data available

## STOT-repeated exposure

no data available

## **Aspiration hazard**

no data available

# **SECTION 12: Ecological information**

# **Toxicity**

Toxicity to fish: LC50 - Danio rerio (previous name: Brachydanio rerio) - > 1 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - > 0.003 mg/L - 48 h.

Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (reported as Selenastrum capricornutum) -  $4.9 \mu g/L$  - 5 d.

Toxicity to microorganisms: no data available

# Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

## Mobility in soil

no data available

#### Other adverse effects

no data available

# SECTION 13: Disposal considerations

#### Disposal methods

## **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do

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not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: UN3077 (For reference only, please check.)
IMDG: UN3077 (For reference only, please check.)
IATA: UN3077 (For reference only, please check.)

#### **UN Proper Shipping Name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

#### Transport hazard class(es)

ADR/RID: 9 (For reference only, please check.)
IMDG: 9 (For reference only, please check.)
IATA: 9 (For reference only, please check.)

## Packing group, if applicable

ADR/RID: III (For reference only, please check.)

IMDG: III (For reference only, please check.)

IATA: III (For reference only, please check.)

#### **Environmental hazards**

ADR/RID: Yes
IMDG: Yes
IATA: Yes

## Special precautions for user

no data available

## Transport in bulk according to IMO instruments

no data available

# SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

**European Inventory of Existing Commercial Chemical Substances (EINECS)** 

Not Listed.

**EC Inventory** 

Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

**PICCS** 

Not Listed.

Vietnam National Chemical Inventory

Listed.

**IECSC** 

Listed.

Korea Existing Chemicals List (KECL)

Not Listed.

# **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

## References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

 $HSDB-Hazardous\ Substances\ Data\ Bank,\ website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm$ 

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

#### Disclaimer:

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