

## Safety data sheet

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BASF Safety data sheet  
Date / Revised: 14.03.2024  
Product: **Kauropal® 931 liquid**

Version: 4.0

(30034795/SDS\_GEN\_VN/EN)

Date of print: 21.10.2025

### 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**Kauropal® 931 liquid**

Use: Chemical

Manufacturer/supplier:  
BASF Vietnam Co. Ltd.  
Level 23, Deutsches Haus, 33 Le Duan,  
Sai Gon Ward, Ho Chi Minh City, Vietnam  
Telephone: +84 28 3824 3833  
Telefax number: +84 28 3824 3832  
E-mail address: minh-triet.thieu@basf.com

Emergency information:  
18001703 (Vietnam)  
Telefax number: +84 28 3824 3832  
International emergency number:  
Telephone: +49 180 2273-112

### 2. Hazard identification

Classification of the substance and mixture:  
Acute toxicity: Cat.4 (oral)  
| Serious eye damage: Cat.1  
Hazardous to the aquatic environment - acute: Cat.2  
Hazardous to the aquatic environment - chronic: Cat.3

Label elements and precautionary statement:

Pictogram:

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Signal Word:  
Danger

Hazard Statement:

H318	Causes serious eye damage.
H302	Harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear eye and face protection.
P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P330	Rinse mouth.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Other hazards which do not result in classification:

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

This classification is based on the current CESIO recommendations. 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.

### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

Polymer based on:

in water

#### Hazardous ingredients

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Alcohols, C12-14, ethoxylated

Content (W/W):  $\geq 75\%$  -  $\leq 100\%$ 

CAS Number: 68439-50-9

Acute Tox.: Cat. 4 (oral)

Eye Dam./Irrit.: Cat. 1

Aquatic Acute: Cat. 2

Aquatic Chronic: Cat. 3

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## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam

Specific hazards:

harmful vapours, carbon oxides

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

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

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

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## 6. Accidental Release Measures

### Personal precautions:

For non-emergency personnel: Use personal protective clothing. Information regarding personal protective measures, see section 8.

For emergency responders: Take appropriate protective measures.

### Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Methods for cleaning up or taking up:

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material.

Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

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## 7. Handling and Storage

### Handling

Protect against moisture. Shut containers immediately after taking product because product takes up the humidity of air. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

### Storage

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), Aluminium, High density polyethylene (HDPE), tinned carbon steel (Tinplate), glass, Low density polyethylene (LDPE), Galvanized carbon steel (Zinc)

Further information on storage conditions: Keep container tightly closed and in a cool place.

The packed product is not damaged by low temperatures or by frost. Bulk must be protected from solidification.

Protect from temperatures above: 70 °C

Properties of the product change irreversibly on exceeding the limit temperature.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

| No substance specific occupational exposure limits known.

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### Personal protective equipment

#### Respiratory protection:

Respiratory protection in case of vapour/aerosol release. 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

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):  
 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:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless to yellowish	
Odour:	product specific	
pH value:	5 - 8 (50 g/l, 23 °C)	(DIN EN 1262)
drop point:	approx. 6 °C	(DIN 51801)
solidification temperature:	approx. 8 °C	(DIN ISO 2207)
Boiling point:	> 250 °C The data given are those of the active ingredient., contains water	(estimated)
Information on: water		
Boiling point:	100 °C	
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Flash point:	> 100 °C	(DIN 51758)
Evaporation rate:	not determined	
Flammability (solid/gas):	Based on the structure or composition there is no indication of flammability	

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Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	> 200 °C	(DIN 51794)
Thermal decomposition:	> 300 °C	(DTA)
Self ignition:	not self-igniting	
Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	< 0.1 hPa (20 °C)	(internal method)
Density:	approx. 0.99 g/cm <sup>3</sup> (20 °C)	(DIN 51757)
Relative density:	No data available.	
Relative vapour density (air):	not determined	
Solubility in water:	soluble	
Miscibility with water:	miscible in all proportions	
Solubility (qualitative) solvent(s):	alcohols soluble	
Partitioning coefficient n-octanol/water (log Pow):	Study technically not feasible.	
Viscosity, dynamic:	approx. 100 mPa.s (23 °C)	(internal method)

#### Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

#### Conditions to avoid:

See SDS section 7 - Handling and storage.

Thermal decomposition: > 300 °C (DTA)

#### Substances to avoid:

caustics, halogens, Alkalines, acids, reactive chemicals

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

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

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

Chemical stability:

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

Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:

LD50rat (oral): > 300 - 2,000 mg/kg (OECD Guideline 401)

Literature data.

#### Acute dermal toxicity

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

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

#### Assessment of acute toxicity

Harmful if swallowed.

Information on: Alcohols, C12-14, ethoxylated

#### Acute oral toxicity

Experimental/calculated data:

LD50 rat (oral): > 300 - 2,000 mg/kg (OECD Guideline 401)

Literature data.

#### Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

(Further) symptoms and / or effects are not known so far

#### Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Literature data.

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Literature data.

Information on: Alcohols, C12-14, ethoxylated  
Experimental/calculated data:  
Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)  
Literature data.  
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### **Respiratory/Skin sensitization**

Assessment of sensitization:  
Based on the structure, there is no suspicion of a skin-sensitizing potential.

### **Germ cell mutagenicity**

Assessment of mutagenicity:  
Based on the structure, there is no suspicion of a mutagenic effect.

### **Carcinogenicity**

Assessment of carcinogenicity:  
Based on the structure there is no suspicion of a carcinogenic effect.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

### **Developmental toxicity**

Assessment of teratogenicity:  
Based on the ingredients, there is no suspicion of a teratogenic effect.

### **Specific target organ toxicity (single exposure)**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

Assessment of repeated dose toxicity:  
The information available on the product provides no indication of toxicity on target organs after repeated exposure.

### **Aspiration hazard**

No aspiration hazard expected.

### **Other relevant toxicity information**

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.



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## 12. Ecological Information

### Ecotoxicity

Toxicity to fish:

LC50 (96 h) > 1 - 10 mg/l, *Leuciscus idus* (Screening (style of OECD 203))

Literature data.

Aquatic invertebrates:

EC50 (48 h) > 1 - 10 mg/l, *Daphnia magna* (DIN 38412 Part 11)

Literature data.

Aquatic plants:

EC50 (72 h) > 1 - 10 mg/l (growth rate), *Desmodesmus subspicatus* (DIN 38412 Part 9)

acute Effect Literature data.

No observed effect concentration > 0.1 - 1 mg/l (growth rate), algae

long-term effect Literature data. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge:

EC10 5,000 mg/l, activated sludge (DEV-L2)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### Mobility

Assessment transport between environmental compartments:

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

Adsorption to solid soil phase is possible.

### Persistence and degradability

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

Readily biodegradable (according to OECD criteria).

Elimination information:

>= 90 % Bismuth-active substance (mod. OECD 303A)

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

Analogous: Assessment derived from products with similar chemical character.

### Sum parameter

Chemical oxygen demand (COD): approx. 2,700 mg/g

Biochemical oxygen demand (BOD): 685 mg/g

### Bioaccumulation potential

Assessment bioaccumulation potential:  
Accumulation in organisms is not to be expected.

### Additional information

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:  
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components. Do not discharge product into the environment without control.

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## 13. Disposal Considerations

Information on disposal regulations: Must comply with regulations on hazardous waste such as:

- Decree No. 08/2022/ND-CP of the Government: detailing a number of articles of the Law on Environmental Protection.
- Circular No. 02/2022/TT-BTNMT of the Ministry of Natural Resources and Environment: detailing a number of articles of the Law on Environmental Protection.

Must be disposed of or incinerated in accordance with local regulations.  
No disposal via sewage or waste water systems.

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

### Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Sea transport IMDG

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	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

#### **Air transport** IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

## **15. Regulatory Information**

### **Other regulations**

The SDS is composed based on the Global Harmonization Globally Harmonized System of Classification and Labeling of Chemicals and applicable local chemical regulations as following:

- The Chemical Law 06/2007/QH12 issued on 21/11/2007.
- The decree No. 113/2017/ND-CP specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 82/2022/ND-CP Amendments to some articles of government's decree no.113/2017/ND-CP dated October 09, 2017 specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- Circular 17/2022/TT-BCT Amendments to some articles of circular no. 32/2017/TT-BCT dated December 28, 2017 of the Minister Of Industry And Trade on elaboration and provision of guidelines for implementation of certain articles of the law on chemicals and the government's decree no. 113/2017/ ND-CP dated October 09, 2017 on elaboration and provision of guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 17/2020/ND-CP Amendments to some articles of decrees related to necessary business conditions in fields under the management of the Ministry Of Industry and Trade.
- The decree No. 42/2020/ND-CP on list of dangerous goods, transport of dangerous goods by land motor vehicles and transport of dangerous goods by inland waterways.
- The Circular 32/2017/TT-BCT specifying and providing guidelines for implementation of certain articles of the law on chemicals and the government's decree no. 113/2017/ND-CP dated October 09, 2017 specifying and providing guidelines for implementation of certain articles of the law on chemicals.

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

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## 16. Other Information

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.