



## Safety data sheet according to 1907/2006/EC Article 31

### LUMOROL K 5229

Version: 4.0

Revision: 06/2015

Printing date: 22.06.15

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

##### Product identifier

Trade name: LUMOROL K 5229

Substance name: Alcohols, C12-14, ethoxylated

Registration number:

EC number: - - -

Index number:

CAS number: 68439-50-9

Substance name: alcohols, C12-14 (even numbered), ethoxylated ( $\leq 2.5$  moles EO),  
sulfated, monoisopropanolamine salt

Registration number: 01-2119976350-37-0002

EC number: 9321857

Index number:

CAS number: 1187742-72-8

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

Application of the substance / the preparation  
Surfactant raw material

Recommended restriction of use

No further relevant information available.

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

The Soap Kitchen

Unit 8 Caddsdawn Industrial Park

Clovelly Road, Bideford

Devon

EX39 3DX

UK

Tel: +44 (0) 1237 420872

Website: [www.thesoapkitchen.co.uk](http://www.thesoapkitchen.co.uk)

Email: [info@thesoapkitchen.co.uk](mailto:info@thesoapkitchen.co.uk)

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#### \*2. Hazards identification

##### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2

Eye Dam. 1

Aquatic Acute 1



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Aquatic Chronic 3

H315

Causes skin irritation.

H318

Causes serious eye damage.

H400

Very toxic to aquatic life.

H412

Harmful to aquatic life with long lasting effects.

### Classification according to Directive 67/548/EEC / 1999/45/EC

Xi - irritant

N - dangerous for the environment

R38

Irritating to skin.

R41

Risk of serious damage to eyes.

R50

Very toxic to aquatic organisms.

### Label elements

#### Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

Causes skin irritation.

Causes serious eye damage.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

#### Precautionary statements

Avoid release to the environment.

Wear protective gloves and eye / face protection.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice / attention.

IF ON SKIN: Wash with plenty of soap and water.



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### Labelling according to Directive 67/548/EEC / 1999/45/EC

#### Hazard symbols

Xi - irritant  
N - dangerous for the environment

#### R phrases

Irritating to skin.  
Risk of serious damage to eyes.  
Very toxic to aquatic organisms.

#### S phrases

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
After contact with skin, wash immediately with water and soap.  
Wear suitable gloves and eye/face protection.  
Avoid release to the environment. Refer to special instructions/safety data sheets before use.

#### Other hazards

not required

### \*3. Composition / information on ingredients

#### Chemical characterization

Blend of fatty alcohol PEG ether and fatty alcohol ether sulfate

#### Hazardous ingredients

EC/CAS  
REACH

Substance  
Haz. label H phrases

68439-50-9

Alcohols, C12-14, ethoxylated

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H318, H400



Eye Dam. 1, Aquatic Acute 1

> 10 %

9321857  
1187742-72-8  
01-2119976350-37-0002

alcohols, C12-14 (even numbered), ethoxylated ( $\leq 2.5$  moles EO),  
sulfated, monoisopropanolamine salt  
H315, H318, H412





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Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3

> 10 %

EC/CAS  
REACH

Substance  
Haz. label R phrases

Alcohols, C12-14, ethoxylated

68439-50-9

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Xi, N 41, 50

> 10 %

9321857

alcohols, C12-14 (even numbered), ethoxylated ( $\leq 2.5$  moles EO),

1187742-72-8

sulfated, monoisopropanolamine salt

01-2119976350-37-0002

Xi 38, 41

> 10 %

#### 4. First aid measures

##### Description of first aid measures

###### General information

Remove contaminated soaked clothing immediately and dispose of safely.

In the event of symptoms refer for medical treatment.

###### Inhalation

Remove the casualty into fresh air and keep him calm.

###### Skin contact

In case of contact with skin wash off immediately with soap and water.

###### Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

###### Ingestion

Do not induce vomiting.

Summon a doctor immediately.

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

If swallowed or in the event of vomiting, risk of product entering the lungs.

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

If swallowed, stomach should be pumped out under addition of Dimeticon.

#### \*5. Firefighting measures

##### Extinguishing media

Suitable extinguishing media:

alcohol-resistant foam

dry powder



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carbon dioxide  
water spray jet

Unsuitable extinguishing media:  
Full water jet

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

In the event of fire the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphurous oxides (SO<sub>x</sub>)

**Advice for firefighters**

Special protective equipment:  
No further relevant information available.

Addition information:  
Do not inhale explosion and/or combustion gases.

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**\*6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**

Avoid contact with eyes and skin.

**Environmental precautions:**

Do not discharge into the drains/surface water/groundwaters.

**Methods and material for containment and cleaning up:**

Take up with absorbent material.  
e.g. general-purpose binder  
Dispose of absorbed material in accordance with the regulations.

**Reference to other sections**

Observe section 7 of the Safety Data Sheet.  
Observe section 8 of the Safety Data Sheet.  
Observe section 13 of the Safety Data Sheet.

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**7. Handling and storage**

**Precautions for safe handling**

No special measures necessary.

Information about fire and explosion protection:  
No special measures necessary.

**General information:**

Do not eat, drink, smoke or sniff while working.  
Wash hands before breaks and at the end of work.  
Observe section 6 of the Safety Data Sheet.  
Observe section 8 of the Safety Data Sheet.

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



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Requirements to be met by storerooms and receptacles:  
No special measures necessary.

Information about storage in one common storage facility:  
No further relevant information available.

Further information about storage conditions:  
Do not keep at temperatures above 30 °C.

#### Specific end use(s)

No further relevant information available.

### 8. Exposure controls / personal protection

#### Control parameters

#### Components with occupational exposure limits to be monitored

not required

#### DNEL

EC/CAS	Description of substance			
9321857	alcohols, C12-14 (even numbered), ethoxylated ( $\leq 2.5$ moles EO),			
1187742-72-8	sulfated, monoisopropanolamine salt			
01-2119976350-37-0002				
	DNEL (workers, inhalative): chronic	systemic	175 mg/m <sup>3</sup>	
	DNEL (workers, dermal): chronic	systemic	2750 mg/kg	1 d
	DNEL (consumers, oral): chronic	systemic	15 mg/kg	1 d
	DNEL (consumers, inhalative): chronic	systemic	52 mg/m <sup>3</sup>	
	DNEL (consumers, dermal): chronic	systemic	1650 mg/kg	1 d

#### PNEC

EC/CAS	Description of substance	
9321857	alcohols, C12-14 (even numbered), ethoxylated ( $\leq 2.5$ moles EO),	
1187742-72-8	sulfated, monoisopropanolamine salt	
01-2119976350-37-0002		
	PNEC (freshwater):	0,014 mg/l
	PNEC (marine aquatic):	0,0014 mg/l
	PNEC (freshwater sediment):	0,0617 mg/kg
	PNEC (marine sediment):	0,0062 mg/kg
	PNEC (STP):	10000 mg/l
	PNEC (soil):	7,5 mg/kg

### Exposure controls

#### Appropriate engineering controls

No further relevant information available.



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Observe section 7 of the Safety Data Sheet.

#### Personal protective equipment

Eye protection (EN 166)

goggles

Hand protection (EN 374)

PVC gloves

Skin protection (EN 465)

protective clothing

Respiratory protection (EN 141/149)

not required

General protective measures / hygiene measures

Observe the usual precautions when handling chemicals.

#### Environmental exposure controls

Observe section 6 of the Safety Data Sheet.

Observe section 7 of the Safety Data Sheet.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Form:	viscous Sedimentation possible		
Colour:	bright yellow clear		
Odour:	characteristic		
Odour threshold:	not determined		
pH-value: water	10 % 6,5 at 20 °C		DIN 19268
Melting point:	10 °C		
Boiling point:	> 100 °C		DIN 53171
Flash point:	> 100 °C		open cup
Evaporation rate:	not determined		
Flammability (solid, gas):	not applicable		
Explosion limits:	not determined		
Vapour pressure:	approx. 5 mbar at 20 °C		(H2O)
Vapour density:	not determined		
Density:	1 g/cm <sup>3</sup> at 20 °C		DIN 51757
Solubility: water	soluble		
Partition coefficient: n-octanol/water	not applicable		
Self-ignition:	not determined		
Decomposition temperature:	not determined		
Viscosity (dynamic):	500 mPa*s at 20 °C		DIN 53018
Explosive properties:	---		
Oxidising properties:	---		



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**Other information**

No further relevant information available.

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**10. Stability and reactivity**

**Reactivity**

No further relevant information available.

**Chemical stability**

No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions**

No further relevant information available.

**Conditions to avoid**

No special measures necessary.

**Incompatible materials**

Reactions with acids.

**Hazardous decomposition products**

None with proper handling and storage.

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**\*11. Toxicological information**

LD50 (oral): > 2000 mg/kg

- Primary irritancy  
Effect on skin: irritant  
Irritant effect on eyes: risk of serious damage to eyes
  - Experiences made in practice  
Has a degreasing effect on the skin.
  - General remarks  
The product has not been tested. The information is derived from the properties of the individual components.
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**12. Ecological information**

**- Data on elimination (persistence and degradability)**

- Validation  
Readily biodegradable.
- General information  
The surfactant(s) contained in this preparation complies (comply) 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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**- Ecotoxic effects**

EC50: < 1 mg/l

- Behaviour in sewage treatment plants  
When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

**- General ecological information**

- General information  
Do not allow product to reach the drainage.  
The breakdown properties of the product have not been tested.  
The information on these is given on the basis of details in the literature.

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**13. Disposal considerations**

**Waste treatment methods**

**Recommendation:**

Can be taken to an incineration plant, if relevant regulations in force are being observed and, if necessary, after consulting the waste disposal agency, respectively the relevant authorities.  
Do not allow product to reach the drainage.

**Contaminated packaging**

**Recommendation:**

Contaminated packaging should be emptied as far as possible and may be reused after appropriate cleansing.

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**14. Transport information**

**UN number**

ADR: 3082r

IMDG: 3082

IATA: 3082

**UN proper shipping name**

ADR: Environmentally hazardous substance, liquid, n.o.s.  
(Alcohol C12-16 poly (1-6) ethoxylate)

IMDG: Environmentally hazardous substance, liquid, n.o.s.  
(Alcohol C12-16 poly (1-6) ethoxylate)

IATA: Environmentally hazardous substance, liquid, n.o.s.  
(Alcohol C12-16 poly (1-6) ethoxylate)

**Transport hazard class(es)**

ADR: 9



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IMDG: 9

IATA: 9

#### Packing group

ADR: III

IMDG: III

IATA: III

#### Environmental hazards

ADR: The material is harmful to the environment.

IMDG: The material is harmful to the environment.

IATA: The material is harmful to the environment.

#### Special precautions for user

ADR:

Danger code (Kemler): 90

Tunnel restriction code: E

IMDG:

EmS: F-A S-F

IATA:

No further relevant information available.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not required

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### 15. Regulatory information

#### Substances of very high concern (SVHC) according to REACH, Article 57

not required

#### - Other regulations, restrictions and prohibition regulations

- 1996/82/EC: 9 A

- Water hazard class (FRG): 2

- Storage class (TRGS 510) (FRG)  
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### \*16. Additional information

#### - Relevant H-phrases (see item 3)

H315

Causes skin irritation.

H318

Causes serious eye damage.



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H400

Very toxic to aquatic life.

H412

Harmful to aquatic life with long lasting effects.

#### - Relevant R-phrases (see item 3)

38

Irritating to skin.

41

Risk of serious damage to eyes.

50

Very toxic to aquatic organisms.

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This information is based on our present state of knowledge. It should not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Existing acts and regulations must be observed by the recipient of our products under his own responsibility.

## **Impact of 2<sup>nd</sup> ATP of CLP-Regulation on the classification and labelling of substances and mixtures**

On 30<sup>th</sup> of March 2011 the so-called 2<sup>nd</sup> Adaptation Guideline to the Technical and scientific Progress (2<sup>nd</sup> ATP to CLP Regulation) was published (Regulation (EC) No. 286/2011).

As a significant innovation the 2<sup>nd</sup> ATP to CLP-Regulation involves the classification criteria for long-term aquatic hazard (*chronic aquatic toxicity*). In the past the classification in this hazard category based solely on values of *acute aquatic toxicity* in conjunction with information of biodegradability. The 2<sup>nd</sup> ATP to CLP Regulation requires that the chronic aquatic toxicity values, for example NOEC values (= no observed effect concentration) for fish, daphnia or algae must be considered mandatory if chronic aquatic hazard classification (Chronic Category 1 to 3) is needed. Due to the new NOEC limit values of the 2<sup>nd</sup> ATP to CLP-Regulation, some of the products / surfactants are classified as more critical in terms of their water pollution, than before the entering into force of the 2<sup>nd</sup> ATP to CLP-Regulation. This may as well lead to cases that products / surfactants, which did not require labelling on the basis of their acute aquatic toxicity, now must be labelled due to the changes in the classification guidelines. **In those cases, a labelling or a tighter labelling is required without any changes of the product / surfactant itself or its properties.**

The 2<sup>nd</sup> ATP to CLP Regulation shall be binding in the EU for substances from 01.12.2012 and mixtures from 01.06.2015. Now, in the current transitional period for the classification and labeling of mixtures, it is still to be decided by the companies to classify according to the former system of classification by the Preparation Directive, in which the 2<sup>nd</sup> ATP to CLP Regulation was not taken into account. **Therefore, it is likely that mixtures with the same composition carry different labels when supplied by different manufacturers.**

Experts from the European surfactant producers associations are currently examining the available data in order to estimate the influence of the 2<sup>nd</sup> ATP on the classification and labelling of the major surfactant groups. At the same time the "CESIO recommendations for the Classification and Labelling of Surfactants as 'Dangerous for the Environment'" of 1<sup>st</sup> April 2003 and the "CESIO recommendations for Anionic and non-ionic surfactants: Classification and Labelling of Surfactants for human health hazards according to the Dangerous Substances Directive" of May 2006, which are still based on the former EU chemicals legislation, will be converted into CLP requirements. The various documents will be merged into a recommendation for harmonized classification of surfactants. This compilation should enable all producers and distributors, who sell surfactants on the European market, to classify in a harmonized way and thus help to achieve this goal of the CLP-Regulation.

Frankfurt, 28 August 2013