

# SAFETY DATA SHEET KR9 ANTI BACTERIAL SOAP

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

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

### 1.1. Product identifier

Product name KR9 ANTI BACTERIAL SOAP

Internal identification C599

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

**Identified uses** Hand cleaner.

Use only for intended applications.

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

Supplier ARROW SOLUTIONS

**RAWDON ROAD** 

**MOIRA** 

SWADLINCOTE DERBYSHIRE DE12 6DA

TEL: +44 (0)1283 221044 FAX: +44 (0)1283 225731 sales@arrowchem.com

## 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 777 8505 330 (24 hrs).

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

**Hazard statements** H318 Causes serious eye damage.

## **KR9 ANTI BACTERIAL SOAP**

Precautionary statements 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/ doctor.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO,

5-10%

sulphates, sodium salts

CAS number: 68891-38-3 EC number: 500-234-8 REACH registration number: 01-

2119488639-16-XXXX

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

### Sulphuric acid, mono-C12-14-alkyl esters, sodium salts

5-10%

CAS number: 85586-07-8 EC number: 287-809-4 REACH registration number: 01-

2119489463-28-XXXX

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

Lactic Acid 1-5%

CAS number: 79-33-4

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318

COCO AMIDO PROPYL BETAINE 1-5%

CAS number: 97862-59-4 EC number: 931-296-8 REACH registration number: 01-

2119488533-30-XXXX

Classification

Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

#### **KR9 ANTI BACTERIAL SOAP**

sodium chloride 1-5%

CAS number: 7647-14-5 EC number: 231-598-3 REACH registration number: 01-

2119485491-33-XXXX

Classification
Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have

product container or label at hand. Get medical attention immediately.

**Inhalation** Remove person to fresh air and keep comfortable for breathing.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any

discomfort continues.

**Skin contact** Rinse with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse. Get medical attention immediately.

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

**Inhalation** Coughing, chest tightness, feeling of chest pressure.

**Ingestion** Gastrointestinal symptoms, including upset stomach.

**Skin contact** Causes skin irritation.

Eye contact Causes serious eye damage.

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

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

## 5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

Sulphurous gases (SOx).

5.3. Advice for firefighters

Protective actions during

No specific firefighting precautions known.

firefighting

## SECTION 6: Accidental release measures

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

#### **KR9 ANTI BACTERIAL SOAP**

#### Personal precautions

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not handle broken packages without protective equipment. Take care as floors and other surfaces may become slippery. Avoid contact with skin, eyes and clothing. Do not touch or walk into spilled material. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

#### 6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions

Avoid contact with eyes and prolonged skin contact. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Good personal hygiene procedures should be implemented.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

### Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts (CAS: 68891-38-3)

**DNEL** Industry - Dermal; Long term systemic effects: 2750 mg/kg/day

Industry - Inhalation; Long term systemic effects: 175 mg/m³ Consumer - Oral; Long term systemic effects: 15 mg/kg/day Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day Consumer - Inhalation; Long term systemic effects: 52 mg/m³

PNEC - Fresh water; 0.24 mg/l

marine water; 0.024 mg/l
Intermittent release; 0.071 mg/l
Sediment (Freshwater); 5.45 mg/kg
Sediment (Marinewater); 0.545 mg/kg

- Sediment (Marinewater); 0.545 mg/kg

Soil; 0.946 mg/kgSTP; 10000 mg/l

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#### Sulphuric acid, mono-C12-14-alkyl esters, sodium salts (CAS: 85586-07-8)

**DNEL** Workers - Dermal; Long term systemic effects: 4060 mg/kg/day

Workers - Inhalation; Long term systemic effects: 285 mg/m³

General population - Oral; Long term systemic effects: 24 mg/kg/day General population - Dermal; Long term systemic effects: 2440 mg/kg/day General population - Inhalation; Long term systemic effects: 85 mg/m³

PNEC - Fresh water; 0.102 mg/l

- marine water; 0.01 mg/l

Intermittent release; 0.036 mg/l
Sediment (Freshwater); 3.58 mg/kg
Sediment (Marinewater); 0.358 mg/kg

Soil; 0.654 mg/kgSTP; 1084 mg/l

## COCO AMIDO PROPYL BETAINE (CAS: 97862-59-4)

**DNEL** Industry - Dermal; Long term systemic effects: 12.5

Consumer - Dermal; Long term systemic effects: 7.5 mg/kg/day Industry - Inhalation; Long term systemic effects: 44 mg/m³

PNEC - Fresh water; 0.0135 mg/l

STP; 300 mg/lSoil; 0.8 mg/kg

Sediment (Marinewater); 0.1 mg/kgSediment (Freshwater); 1 mg/kgmarine water; 0.00135 mg/l

## 8.2. Exposure controls

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

No specific requirements are anticipated under normal conditions of use. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene.

Other skin and body protection

Provide eyewash station.

Hygiene measures

Good personal hygiene procedures should be implemented. Wash contaminated clothing before reuse.

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Environmental exposure controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to

local and national provisions.

#### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Colourless

Odour Detergent.

Odour threshold Not determined.

pH pH (concentrated solution): 3.5

Melting pointNot determined.Initial boiling point and rangeNot determined.Flash pointNot applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability Not applicable.

Vapour pressure Not determined.

Relative density ~ 1.03 @ 25°C

Solubility(ies) Soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not applicable.

**Decomposition Temperature** Not applicable.

**Viscosity** ~ 1000 cP @ 25°C

**Explosive properties**There are no chemical groups present in the product that are associated with explosive

properties.

Oxidising properties There are no chemical groups present in the product that are associated with oxidising

properties.

Comments Information declared as "Not available" or "Not applicable" is not considered to be relevant to

the implementation of the proper control measures.

9.2. Other information

Other information Not determined.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

#### **KR9 ANTI BACTERIAL SOAP**

Possibility of hazardous

reactions

Not determined.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

Sulphurous gases (SOx).

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 23,936.17

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Does not contain any substances known to be mutagenic.

Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

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Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Acute and chronic health

hazards

Corneal damage. Irritating to skin.

Route of exposure Skin and/or eye contact Dermal

**Target organs** Eyes Skin

Medical symptoms Skin irritation. Irritation of eyes and mucous membranes.

Toxicological information on ingredients.

Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

Rat

4,100.0

**Species** 

Notes (oral LD₅₀)

ATE oral (mg/kg) 4,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0

mg/kg)

**Species** 

Rat

2,001.0 ATE dermal (mg/kg)

Sulphuric acid, mono-C12-14-alkyl esters, sodium salts

Acute toxicity - oral

Acute toxicity oral (LD50

1,800.0

mg/kg)

**Species** Rat

ATE oral (mg/kg) 1,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0

mg/kg)

**Species** Rat

**COCO AMIDO PROPYL BETAINE** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,000.0

mg/kg)

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**Species** Rat

sodium chloride

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

3,500.0

Species Rat

**ATE oral (mg/kg)** 3,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 10,001.0

mg/kg)

10,001.0

**Species** Rabbit

ATE dermal (mg/kg) 10,001.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> dust/mist mg/l)

43.0

Species Rat
ATE inhalation 43.0

(dusts/mists mg/l)

**SECTION 12: Ecological information** 

**Ecotoxicity** Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Chronic aquatic toxicity

Chronic toxicity - fish early life Not determined.

stage

Ecological information on ingredients.

Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 7.1 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic EC₅₀, 48 hours: 7.4 mg/l, Daphnia magna

invertebrates NOEC, 48 hours: 0.27 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 27 mg/l, Scenedesmus subspicatus

Sulphuric acid, mono-C12-14-alkyl esters, sodium salts

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 3.6 mg/l, Oncorhynchus mykiss (Rainbow trout)

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Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 4.7 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: >20 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms

ECo, 16 hours: 409 mg/l, Activated sludge

#### **COCO AMIDO PROPYL BETAINE**

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 1.11 mg/l, Pimephales promelas (Fat-head Minnow)

LC50, 96 hours: 1.1 mg/l, Cyprinodon variegatus (Sheepshead minnow)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 1.9 mg/l, Freshwater invertebrates

EC<sub>50</sub>, : 0.3 mg/l, Freshwater invertebrates

EC<sub>50</sub>, 48 hours: 21.5 mg/l mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 48 hours: 30.0 mg/l, Marinewater algae

#### sodium chloride

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 6750 mg/l,

LC<sub>50</sub>, 96 hours: 5840 mg/l, Lepomis macrochirus (Bluegill)

LC<sub>50</sub>, 96 hours: 10610 mg/l, Pimephales promelas (Fat-head Minnow) NOEC, 7 day: 4000 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 2024 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC<sub>50</sub>, 72 hours: 3014 mg/l, Algae

Acute toxicity - microorganisms

11

IC<sub>50</sub>, : >1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic

LOEC, 21 day: 441 mg/l, Freshwater invertebrates

NOEC, 21 day: 314 mg/l, Freshwater invertebrates

#### 12.2. Persistence and degradability

invertebrates

Persistence and degradability The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not determined.

12.4. Mobility in soil

**Mobility** Soluble in water.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

#### **KR9 ANTI BACTERIAL SOAP**

#### 12.6. Other adverse effects

Other adverse effects Not determined.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Disposal methods**Disposal of this product, process solutions, residues and by-products should at all times

comply with the requirements of environmental protection and waste disposal legislation and

any local authority requirements.

## **SECTION 14: Transport information**

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

### Special Provisions note

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation** Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March

2004 on detergents (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### **KR9 ANTI BACTERIAL SOAP**

### SECTION 16: Other information

Abbreviations and acronyms

ATE: Acute Toxicity Estimate.

used in the safety data sheet ADR: European Agr

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

Road.

CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level.

EC₅: 50% of maximal Effective Concentration.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

NOEC: No Observed Effect Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006. UN: United Nations.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations

and acronyms

Acute Tox. = Acute toxicity

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Eye Dam. = Serious eye damage

Skin Irrit. = Skin irritation

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 19/03/2020

Revision 4.0

Supersedes date 04/05/2017

SDS number 26049

Hazard statements in full H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.