



SAFETY DATA SHEET

S2 CATERING SANITISER CONCENTRATE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name S2 CATERING SANITISER CONCENTRATE
Internal Id C883

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

Identified uses Detergent. Disinfectant.

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
EMERGENCY: +44 (0) 777 8505 330
FAX: +44 (0)1283 225731
sales@arrowchem.com

1.4. Emergency telephone number

+44 (0) 777 8505 330

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified.
Human health Skin Irrit. 2 - H315; Eye Dam. 1 - H318
Environment Aquatic Acute 1 - H400

Classification (1999/45/EEC)

Xi; R38, R41. N; R50.

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

2.2. Label elements

Contains ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE

Detergent Labelling:

15 - < 30% non-ionic surfactants
5 - < 15% disinfectants
< 5% amphoteric surfactants

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

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Hazard Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Precautionary Statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local regulations.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

ALCOHOL ETHOXYLATE		5-10%
CAS-No.: 68439-46-3	EC No.:	
Classification (EC 1272/2008) Eye Dam. 1 - H318	Classification (67/548/EEC) Xi;R41.	
(C9-C11) ALKYL ALCOHOL ETHOXYLATE		5-10%
CAS-No.: 68439-45-2	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.	
ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE		5-10%
CAS-No.: 68424-85-1	EC No.: 270-325-2	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xn;R21/22. C;R34. N;R50.	
ALKYL AMINE OXIDE		5-10%
CAS-No.: 68955-55-5	EC No.: 273-281-2	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xi;R38,R41. N;R50.	
AMPHOTERIC SURFACTANT		1-5%
CAS-No.:	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314	Classification (67/548/EEC) Xn;R22. C;R34.	

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TETRASODIUM GLUTAMATE		1-5%
CAS-No.: 51981-21-6	EC No.: 257-573-7	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36/38.	
EDICOL CARMOSINE 36011		0-1%
CAS-No.: 3567-69-9	EC No.: 222-657-4	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) 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

Inhalation

Move into fresh air and keep at rest.

Ingestion

Rinse mouth thoroughly. DO NOT INDUCE VOMITING! Get medical attention.

Skin contact

Rinse with water. Contact physician if discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

Inhalation.

No specific symptoms noted.

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Irritation of eyes and mucous membranes.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Fire or high temperatures create: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

Wear protective gloves. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water.

6.4. 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

Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 0°C and 40°C.

Storage Class

Corrosive storage.

7.3. 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

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



Hand protection

Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Rubber, neoprene or PVC.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red.
Odour	Mild.
Solubility	Soluble in water.
Relative density	1.015 @ 20°C
pH-Value, Conc. Solution	10.5

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

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10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. 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, or groups of materials are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition products

Fire or high temperatures create: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Ingestion

May cause discomfort if swallowed.

Skin contact

Irritating to skin.

Eye contact

Risk of serious damage to eyes.

Toxicological information on ingredients.

(C9-C11) ALKYL ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Acute toxicity:

Acute Toxicity (Oral LD₅₀)

2950 mg/kg Rat

ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE (CAS: 68424-85-1)

Toxic Dose 1 - LD 50

795 mg/kg (oral rat)

Toxic Dose 2 - LD 50

1560 mg/kg (skn-rat)

ALCOHOL ETHOXYLATE (CAS: 68439-46-3)

Toxic Dose 1 - LD 50

>2000 mg/kg (oral rat)

Toxic Dose 2 - LD 50

>2000 mg/kg (skn-rat)

ALKYL AMINE OXIDE (CAS: 68955-55-5)

Acute toxicity:

Acute Toxicity (Oral LD₅₀)

> 2000 mg/kg Rat

EDICOL CARMOSINE 36011 (CAS: 3567-69-9)

Acute toxicity:

Acute Toxicity (Oral LD₅₀)

> 10000 mg/kg Rat

TETRASODIUM GLUTAMATE (CAS: 51981-21-6)

Toxic Dose 1 - LD 50

>2000 mg/kg (oral rat)

SECTION 12: ECOLOGICAL INFORMATION

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Ecotoxicity

Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Acute Toxicity - Fish

Not determined.

Ecological information on ingredients.

ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE (CAS: 68424-85-1)

Acute Toxicity - Fish

LC50 96 hours ~ 1.7 mg/l *Onchorhynchus mykiss* (Rainbow trout)

EC 50, 48 Hrs, Daphnia, mg/l

0.03 mg/l

Acute Toxicity - Aquatic Plants

EC50 96 hours ~ 0.06 mg/l *Selenastrum capricornutum*

ALCOHOL ETHOXYLATE (CAS: 68439-46-3)

LC 50, 96 Hrs, Fish mg/l

2.4 mg/l

EC 50, 48 Hrs, Daphnia, mg/l

1 - 10 mg/l

IC 50, 72 Hrs, Algae, mg/l

1 -10 mg/l

ALKYL AMINE OXIDE (CAS: 68955-55-5)

Acute Fish Toxicity

Very toxic to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l

<1

TETRASODIUM GLUTAMATE (CAS: 51981-21-6)

Acute Toxicity - Fish

LC50 96 hours > 100 mg/l *Onchorhynchus mykiss* (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 100 mg/l *Daphnia magna*

12.2. Persistence and degradability

Degradability

The product is expected to be biodegradable.

Ecological information on ingredients.

ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE (CAS: 68424-85-1)

Chemical Oxygen Demand

~ 1.13 g O₂/g substance

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

Ecological information on ingredients.

ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE (CAS: 68424-85-1)

Partition coefficient

log Kow < 1.58

ALCOHOL ETHOXYLATE (CAS: 68439-46-3)

Bioaccumulation factor

BCF < 500

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

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12.6. Other adverse effects

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

14.2. UN proper shipping name

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkyl dimethylbenzyl ammonium chloride)
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	9
ADR/RID/ADN Class	Class 9: Other dangerous substances.
IMDG Class	9
ICAO Class/Division	9
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

Tunnel Restriction Code	(E)
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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

Control of Substances Hazardous to Health.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Date 18/02/2012

Revision 1.1

Supersedes date 29/07/2011

Risk Phrases In Full

R34 Causes burns.
R22 Harmful if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
NC Not classified.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

Hazard Statements In Full

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

Disclaimer

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.