SAFETY DATA SHEET

Bus Wash - Chemodex

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

1.1. Product identifier

Product name Bus Wash - Chemodex

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

Identified uses Liquid Detergent

Uses advised against This product is not recommended for any other purpose than stated above.

1.3. Details of the supplier of the safety data sheet

Supplier

Chemodex Ltd
Canal Road
Worksop
Nottingham
S80 2EH

01909 473301
01909 500961

1.4. Emergency telephone number

Emergency telephone As Above - Opening Hours 9 am - 4 pm (Monday - Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards
Not Classified

Health hazards
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Environmental hazards
Not Classified

Classification (67/548/EEC or 1999/45/EC)
Xi; R36/38

2.2. Label elements

Pictogram

Signal word Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Detergent labelling 15 - < 30% anionic surfactants, < 5% amphoteric surfactants, < 5% perfumes

Supplementary precautionary statements

Bus Wash - Chemodex

P264 Wash contaminated skin thoroughly after handling.
P302+P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see medical advice on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.

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

Anionic Surfactant	**10-30%**
CAS number: 32612-48-9 **EC number:** –	
Classification	**Classification (67/548/EEC or 1999/45/EC)**
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	-

Alkylamidopropylbetain	**1-5%**
CAS number: – **EC number:** –	
Classification	**Classification (67/548/EEC or 1999/45/EC)**
Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	Xi;R41.

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
Get medical attention if any discomfort continues.

Ingestion
Remove affected person from source of contamination. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.

Skin contact
Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact
Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

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

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
No specific symptoms known.

Ingestion
May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact
Prolonged contact may cause redness, irritation and dry skin.

Eye contact
May cause temporary eye irritation.

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

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

The product is non-combustible. Irritating gases or vapours. Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon. Nitrogen. No unusual fire or explosion hazards noted.

Hazardous combustion products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Use air-supplied respirator, gloves and protective goggles. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin and eyes. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground. To prevent release, place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. Dike far ahead of larger spills for later disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery.

6.4. Reference to other sections

Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep only in the original container. Store in a cool and well-ventilated place.

Storage class

Chemical 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

Occupational exposure limits

Bus Wash - Chemodex

Anionic Surfactant

Long-term exposure limit (8-hour TWA): WEL 25 ppm 91 mg/m3
Short-term exposure limit (15-minute): WEL 100 ppm 366 mg/m3

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

Anionic Surfactant (CAS: 32612-48-9)

DNEL	Industry - Oral; : 2750 mg/kg/day
PNEC	- Fresh water; 0.240 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

Safety glasses with side shields are recommended if there is the risk of direct contact or splash.

Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). 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.

Other skin and body protection

Provide eyewash station. Work clothes protecting arms, legs and body should be used, together with a PVC protective apron which should be long enough to cover rubber shoes/boots thus eliminating the possibility of splashes or spillages entering the footwear.

Hygiene measures

Based on and limited to our experience of this product, the following special advice is believed to provide satisfactory protection for the industrial user or handler. The choice of suitable protective equipment depends on work conditions and what methods are used for handling the substance. This advice is not a substitute for each Company conducting their own Risk/COSHH Assessments, but is provided as general guidance. Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use barrier cream to prevent drying of skin. Eating, smoking and water fountains prohibited in immediate work area.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Thickened liquid

Colour

Green.

Odour

Lemon.

pH

pH (concentrated solution): ~7

Relative density

~ 1

Solubility(ies)

Soluble in water.

9.2. Other information

Volatile organic compound

Bus Wash - Chemodex

This product contains a maximum VOC content of 0 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with: strong acids, strong alkalis and oxidising agents.

10.2. Chemical stability

Stability
Stable at normal ambient temperatures and when used as recommended. No particular stability concerns.

10.3. Possibility of hazardous reactions

Not applicable. Will not polymerise.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid
Strong acids. Strong oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information
This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Inhalation
No significant hazard at normal ambient temperatures. Heating may generate the following products: Irritating gases or vapours.

Ingestion
May cause discomfort if swallowed.

Skin contact
May cause defatting of the skin but is not an irritant.

Eye contact
May cause temporary eye irritation.

Route of entry
Ingestion. Skin and/or eye contact

Medical symptoms
No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

Medical considerations
Skin disorders and allergies.

Toxicological information on ingredients.

Anionic Surfactant

Toxicological effects
Acute toxicity:
Oral DL50: > 2000 mg/kg (rat)
Dermal DL50: > 2000 mg/kg (rat)

General information
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

Skin contact
Irritant to skin and mucous membranes.

Eye contact
Irritating effect.

SECTION 12: Ecological Information

Bus Wash - Chemodex

Ecotoxicity

No negative effects on the aquatic environment are known. The product components are not classified as environmentally hazardous.
However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The
product is not expected to be hazardous to waste water treatment processes.

12.1. Toxicity

Not applicable

Acute toxicity - fish

Not determined.

Acute toxicity - aquatic invertebrates

Not determined.

Acute toxicity - aquatic plants

Not determined.

Acute toxicity - microorganisms

Not determined.

Acute toxicity - terrestrial

Not determined.

Ecological information on ingredients.

Anionic Surfactant

Aquatic Toxicity:
fish, CL50: 7,1 mg/l

Alkylamidopropylbetain

Toxicity to bacteria: EC0 : Dose: > 3000 mg/l calculated

12.2. Persistence and degradability

Persistence and degradability

No supplementary information available. The surfactants contained in this preparation 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.

Ecological information on ingredients.

Anionic Surfactant

Persistence and degradability

The product is easily biodegradable.

Alkylamidopropylbetain

Persistence and degradability

Biological degradability:
>80%
Testing period: 28d
The product is readily biodegradable according to OECD criteria.

12.3. Bioaccumulative potential

No further relevant information available.

Ecological information on ingredients.

Alkylamidopropylbetain

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility

No further relevant information available.

Ecological information on ingredients.

Alkylamidopropylbetain

Mobility

No further relevant information available.

Bus Wash - Chemodex

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

Alkylamidopropylbetain

Not applicable

12.6. Other adverse effects

Not applicable.

Ecological information on ingredients.

Anionic Surfactant

Do not allow product to reach ground water, water course or sewage system.

Alkylamidopropylbetain

Further ecological information:
Chemical Oxygen Demand (COD): 1000000 mg/l
Method: DIN 38409 T. 41

Remarks: The product is considered to be weak water pollutant (German law).
Do not allow to enter soil, waterways or waste water cancal.
Ecological data refer to the main components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The packaging must be empty (drop-free when inverted).

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Discharge of small quantities to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor. Packaging: Recover and reclaim or recycle. If practical.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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 MARPOL73/78 and the IBC Code

Not applicable.

Not applicable.

SECTION 15: Regulatory information

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

Bus Wash - Chemodex

National regulations

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

EU legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (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).

Guidance

Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.

Health and environmental listings

Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).

Water hazard classification

WGK 1

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information

PLEASE NOTE: The risk phrases itemised below are those relating to concentrated forms of the raw materials used in this product and are not necessarily applicable to the finished item. Please see Section 2 for the current classification of this product.

Revision date 21/08/2014

Revision 1

Risk phrases in full

R36/38 Irritating to eyes and skin.

Hazard statements in full

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.