

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product Identifier**

**Product Name:** BIOWASH  
**Product Code/s:** 0301-0010, 0301-02x5  
**Product Use:** Biological Liquid Laundry Detergent

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

**Identified uses:** Laundry product. Automatic process.  
**Uses advised against:** Uses other than those identified are not recommended.

**1.3 Details of the supplier of the safety data sheet**

**Supplier** Advantage Chemicals Institutional Ltd  
Unit 9 Strensham Business Park,  
Strensham,  
Worcestershire WR8 9JZ  
Tel: 01684 273299 Web: [www.advchem.co.uk](http://www.advchem.co.uk) Email: [sales@advchem.co.uk](mailto:sales@advchem.co.uk)

**1.4 Emergency telephone number**

**Emergency advice** Technical Information & Safety Data Sheets - 01684 273299, Monday - Friday 8.30am - 5.00pm  
Available 24/7 from our website: [www.advchem.co.uk](http://www.advchem.co.uk).

**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture**

The product has been classified and labelled in accordance with **Regulation (EC) No 1272/2008 [EU-GHS/CLP]**.

**Classification**

**Physical Hazards:** Not classified  
**Health Hazards:** Eye Dam. 1 - H318  
**Environmental Hazards:** Not classified

**2.2 Label elements**

**Pictogram:**



**Signal Word:** **Danger**

**Hazard Statements** H318 Causes serious eye damage

**Precautionary Statements** P102 Keep out of reach of children  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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 CENTRE or doctor.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local regulations.

**Contains:** SODIUM DODECYL BENZENE SULPHONATE

**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

Ingredient	EC number	CAS number	Classification (EC) 1272/2008	Weight %
SODIUM DODECYL BENZENE SULPHONATE	246-680-4	25155-30-0	Skin Irrit. 2 - H315; Eye Dam. 1 - H318	5-15%
ALCOHOLS, C13-15, BRANCHED & LINEAR, ETHOXYLATED		157627-86-6	Acute Tox. 4 - H302; Eye Dam. 1 - H318; Aquatic Chronic 3 - H412	1-5%
ETHANEDIOL	107-21-1	203-473-3	Acute Tox. 4 - H302	<1%
POTASSIUM HYDROXIDE	215-181-3	1310-58-3	Met. Corr.1 - H290; Acute Tox. 4 - H302 Skin Corr. 1A - H314; Eye Dam. 1 - H318	<1%

The full text for all Hazard and Precautionary Statements are displayed in Section 16.

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Unlikely route of exposure as the product does not contain any volatile substances. If spray/mist has been inhaled, proceed as follows - move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

#### Ingestion

Do not induce vomiting. Give large volume of water to drink to dilute the swallowed chemical. Get medical attention immediately.

#### Skin contact

Remove all contaminated clothing. Rinse with plenty of water for 10 minutes. Get medical attention if symptoms occur after washing.

#### Eye contact

Rinse immediately with plenty of water for 15 minutes. Remove any contact lenses and open eye lids wide apart. Transfer to hospital for specialist examination.

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

#### General information

The severity of the symptoms described will vary dependant on the concentration and the length of exposure.

#### Inhalation

Unlikely to occur but symptoms similar to those of ingestion may develop.

#### Ingestion

May cause stomach pain or vomiting.

#### Skin contact

Skin irritation..

#### Eye contact

May cause severe irritation.

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

#### Immediate / special treatment:

Eye bathing equipment should be available on the premises.

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

Product is not flammable. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus (SCBA) and suitable protective clothing.

## SECTION 6. Accidental release measures

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

Notify the police and fire brigade immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of this SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

### **6.2 Environmental precautions**

Do not discharge into drains or rivers. 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**

Small spillages: Flush away spillage with plenty of water to clean spillage area.

Large Spillages: Contain and absorb spillage with sand, earth or other non - combustible material. Collect and place in suitable waste disposal containers and seal securely.

### **6.4 Reference to other sections**

For personal protection see section 8.

For disposal considerations see section 13.

## SECTION 7. Handling and storage

### **7.1 Precautions for safe handling**

#### **Usage procedures**

Avoid spilling. Avoid contact with skin and eyes.

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

#### **Storage precautions**

Store in a tightly closed original container, in a dry, cool and well ventilated place.

### **7.3 Specific end use(s)**

#### **Specific end uses**

The identified uses for this product are detailed in Section 1.2.

#### **Usage description**

See Product Information Sheet & Label for detailed use of this product.

## SECTION 8. Exposure controls/personal protection

### **8.1 Control parameters**

#### **Occupational Exposure Limits**

POTASSIUM HYDROXIDE - Short term exposure limit (15 minutes): Workplace Exposure Limit (WEL) - 2 mg/m<sup>3</sup>

ETHANEDIOL - Short term exposure limit (15 minutes): Workplace Exposure Limit (WEL) - 104 mg/m<sup>3</sup>

### **8.2 Exposure Controls**

#### **Protective Equipment**



#### **Appropriate engineering controls**

Ensure there is sufficient ventilation of the area.

#### **Eye/face protection**

The following protection should be worn: Chemical splash goggles or face shield. Ensure eye bath is to hand.

#### **Hand protection**

Wear protective impermeable gloves.

#### **Other skin and body protection**

Wear suitable protective clothing as protection against splashing or contamination.

#### **Respiratory protection**

Respiratory protection not required. Self contained breathing apparatus must be available in case of emergency.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State</b>	<b>Relative Density</b>	<b>Odour</b>	<b>Melting Point °C</b>
Opaque Liquid.	1.21 +/- 0.5	Perfume.	> 10
<b>Colour</b>	<b>Solubility in water</b>	<b>pH (1% soln)</b>	<b>Boiling Point / range°C</b>
White.	Miscible	7 - 8	>100°C @ 760 mm Hg

### 9.2 Other Information

None.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

There are no known reactivity hazards associated with this product.

### 10.2 Chemical stability

No particular stability concerns.

### 10.3 Possibility of hazardous reactions

See sections 10.1, 10.4 and 10.5

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Strong acids & oxidising substances.

### 10.6 Hazardous decomposition products

In combustion may include the following substances: Oxides of the following substances: Carbon, Sulphur..

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

POTASSIUM HYDROXIDE	ORL	RAT	LD50	2,001.0 mg/kg
	DERMAL	RBT	LD50	4,641.0 mg/kg
ALCOHOLS, C13-15, BRANCHED & LINEAR, ETHOXYLATED	ORAL	RAT	LD50	500 mg/kg

### Relative effects for mixture

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

## SECTION 12. Ecological information

### 12.1 Toxicity

Not considered toxic to fish.

### 12.2 Persistence and degradability

The product is expected to be biodegradable.

### 12.3 Bioaccumulative potential

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

### 12.4 Mobility in soil

Readily absorbed into soil.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

<b>Disposal operations</b>	Discharge used solutions to drain. Do not mix with other chemicals. Rinse out empty container with water and consign to normal waste.
<b>Disposal of packaging</b>	Arrange for disposal by specialist disposal company.
<b>NB</b>	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## SECTION 14. Transport information

### 14.1 UN number

UN No. (ADR/RID)

### 14.1 UN number

Not applicable

UN No. (IMDG)

Not applicable

UN No. (ICAO)

Not applicable

### 14.2 UN proper shipping name

Proper shipping name (ADR/RID)

Not applicable

Proper shipping name (IMDG)

Not applicable

Proper shipping name (ICAO)

Not applicable

Proper shipping name (ADN)

Not applicable

### 14.3 Transport hazard class(es)

ADR/RID Class

Not applicable

IMDG Class

Not applicable

ICAO Class/Division

Not applicable

Transport Labels

### 14.4 Packing Group

ADR/RID Packing group

Not applicable

IMDG Packing group

Not applicable

ICAO Packing group

Not applicable

### 14.5 Environmental Hazards

Environmentally hazardous substance: No

Marine pollutant: No

### 14.6 Special precautions for user

Special Precautions

None

Hazard Identification No (ADR/RID)

Tunnel restriction code

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant for a packaged product.

## SECTION 15. Regulatory information

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

#### EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures.

#### Guidance

Workplace Exposure Limits EH40

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

## SECTION 16. Other information

### Key literature references and sources for data

Miscellaneous Material Safety Data Sheets from manufacturers.

GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures.

ECHA - C&L Inventory database.

### Revision Comments

**Revision Date** 28/02/2015 (Compilation date)

**Revision** Issue 1 - No previous validation

**SDS Status** The Hazard statements listed below in this section 16 relate to the raw materials (ingredients) in the product (as listed in section 3) and NOT the finished product itself. For the Hazard Statements relating to this product see section 3.

**Hazard Statements in full** H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage  
H412 Harmful to aquatic life with long lasting effects.

### Abbreviations and acronyms

ADN	= European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR	= The European Agreement concerning the International Carriage of Dangerous Goods by Road
AISE	= The International Association for Soaps, Detergents and Maintenance Products
Bw	= Body weight
cc	= Closed cup
CLP	= Classification, Labelling and Packaging Regulation
DNEL	= Derived no effect limit
DPD	= Dangerous preparations directive
DRM	= Dermal
dw	= Dry weight
EC50	= Median effective concentration
EUH statement	= CLP - specific hazard statement
GPG	= Guinea Pig
HAM	= Hamster
HMN	= Human
IATA	= International Air Transport Association
IBC	= Intermediate Bulk Container
IMDG	= International Maritime Dangerous Goods
IVN	= Intravenous
LC50	= Median lethal concentration
LD50	= Median lethal dose
LogPow	= logarithm of the octanol/water partition coefficient
MAM	= Mammal
MARPOL 73/78	= International Convention for the Prevention of Pollution From Ships, 1973 as modified in 1978. (Marpol - marine pollution)
MUS	= Mouse
oc	= Open cup
OCC	= Ocular/corneal
PCP	= Physico-chemical properties
PBT	= Persistent, Bioaccumulative and Toxic
PGN	= Pigeon
PNEC	= Predicted No Effect Concentration
RID	= The Regulations concerning the International Carriage of Dangerous Goods by Rail

#### 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, express or implied, is made as to the completeness or continuing accuracy of this information. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.