

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

**Product Name:** DISHWASH POWDER  
**Product Code/s:** 0104-0010  
**Product Use:** Dishwash powder

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

**Identified uses:** Dishwashing product. Manual 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:** Skin Corr. 1B - H314  
**Environmental Hazards:** Aquatic Chronic 1 - H411

**2.2 Label elements**

**Pictogram:**



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

**Hazard Statements** H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements** P102 Keep out of reach of children.  
P260 Do not breath dust.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / protective clothing / eye protection.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local regulations.

**Contains:** DISODIUM METASILICATE

**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 CARBONATE	207-838-8	497-19-8	Eye Irrit. 2 - H319	10-30%
SODIUM METASILICATE	229-912-9	6834-92-0	Skin Corr. 1B - H314; STOT SE 3 - H315	10-30%
SODIUM DICHLOROISOCYANURATE DIHYDRATE	220-767-7	51580-86-0	Ox. Sol. 2; Acute Tox. 4; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1 - H272, H312, H319, H335, H410	1-10%

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

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

#### Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Get medical advice if symptoms persist.

#### Skin contact

Remove all contaminated clothing and footwear unless stuck to the skin. Wash with plenty of soap and water for 15 minutes.

#### Eye contact

Rinse immediately with plenty of water for 15 minutes. Remove any contact lenses and open eye lids wide apart. Seek medical advice if symptoms persist.

### 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

Irritation of dust may cause irritation of the nose and throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

#### Ingestion

There may be soreness and redness of the mouth and throat.

#### Skin contact

There may be irritation and redness at the site of contact.

#### Eye contact

There may be irritation and redness. The eyes may water profusely.

### 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

In combustion emits toxic fumes.

### 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. Do not create dust.

### **6.2 Environmental precautions**

Do not discharge into drains or rivers.

### **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: Transfer spillage to a closable, labelled salvage container for disposal by an appropriate method.

### **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**

Wear protective clothing, gloves, and eye protection. Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

### **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**

SODIUM CARBONATE

Short term exposure limit (10 minutes): Workplace Exposure Limit (WEL) - 10 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 safety glasses. Ensure eye bath is to hand.

#### **Hand protection**

Wear protective impermeable gloves.

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

Wear suitable protective clothing.

#### **Respiratory protection**

If working in a confined space and dusts are created, then a respiratory device with a particle filter is recommended.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State</b>	<b>Colour</b>	<b>Odour</b>	<b>Solubility in Water</b>
Powder.	White.	Chlorine.	Miscible

### 9.2 Other Information

None.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Reactions with the following materials may generate heat: Strong acids.

### 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.

### 10.6 Hazardous decomposition products

In combustion emits toxic fumes.

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Hazardous ingredients:

SODIUM CARBONATE	ORL	MUS	LD50	6600 mg/kg
	ORL	RAT	LDLO	4090 mg/kg
SODIUM METASILICATE	ORAL	MUS	LD50	770 mg/kg
	ORAL	RAT	LD50	1153 mg/kg

#### Relative effects for mixture

Effect	Route	Basis
Irritation	INH	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated

## SECTION 12. Ecological information

### 12.1 Toxicity

#### Hazardous ingredients:

#### SODIUM CARBONATE

RAT 96H LC50 2800 mg/l

### 12.2 Persistence and degradability

Not biodegradable.

### 12.3 Bioaccumulative potential

Bioaccumulation potential.

### 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

Toxic to aquatic organisms. Toxic to soil organisms.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

<b>Disposal operations</b>	Do not mix with other chemicals. Transfer to a suitable container and arrange for collection by a specialised disposal company.
<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

<b>UN No. (ADR/RID)</b>	1759
<b>UN No. (IMDG)</b>	1759
<b>UN No. (ICAO)</b>	1759

### 14.1 UN number

### 14.2 UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	CORROSIVE SOLID, N.O.S. ( DISODIUM METASILICATE )
<b>Proper shipping name (IMDG)</b>	CORROSIVE SOLID, N.O.S. ( DISODIUM METASILICATE )
<b>Proper shipping name (ICAO)</b>	CORROSIVE SOLID, N.O.S. ( DISODIUM METASILICATE )
<b>Proper shipping name (ADN)</b>	CORROSIVE SOLID, N.O.S. ( DISODIUM METASILICATE )

### 14.3 Transport hazard class(es)

<b>ADR/RID Class</b>	Class 8: Corrosive substances
<b>IMDG Class</b>	Class 8: Corrosive substances
<b>ICAO Class/Division</b>	Class 8: Corrosive substances

### **Transport Labels**



### 14.4 Packing Group

<b>ADR/RID Packing group</b>	III
<b>IMDG Packing group</b>	III
<b>ICAO Packing group</b>	III

### 14.5 Environmental Hazards

**Environmentally hazardous substance:** Yes                      **Marine pollutant:** No

### 14.6 Special precautions for user

<b>Special Precautions</b>	None
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	E

### 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** 04/11/2014 (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** H272 May intensify fire; oxidiser.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H411 Toxic 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.