

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

1.1 Product Identifier

Product Name: ENZYMATIC LAUNDRY POWDER
Product Code/s: 0308-0010
Product Use: Biological Laundry powder

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

Identified uses: Laundry 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 Email: 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

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; Skin Irrit. 2 - H315
Environmental Hazards: Not classified

2.2 Label elements

Pictogram:



Signal Word: **Warning**

Hazard Statements H315 Causes skin irritation.
 H318 Causes serious eye damage.

Precautionary Statements P102 Keep out of reach of children.
 P261 Avoid breathing dust.
 P280 Wear protective gloves / eye protection.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
 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	30-50%
SODIUM PERCARBONATE	239-707-6	15630-707-6	Ox. Sol. 3 - H272; Eye Dam. 1 - H318; Acute Tox. 4 - H302	10-30%
SODIUM METASILICATE	229-912-9	6834-92-0	Skin Corr. 1B - H314 STOT SE 3 - H315	1-10%
SODIUM DODECYL BENZENE SULPHONATE	246-680-4	25155-30-0	Acute Tox. 4 - H302; Eye Dam. 1 - H318; Skin Irrit. 2 - H315; STOT SE 3 - H315	1-10%
NON IONIC SURFACTANTS			Acute Tox. 4 - H302; Eye Dam. 1 - H318;	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. Give 1 pint of water to drink. Get medical advice if symptoms persist.

Skin contact

Wash with plenty of soap and water for 15 minutes. Seek medical advice if any discomfort persists.

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

Inhalation of dust may cause irritation of the nose, mouth, throat and lungs.

Ingestion

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

Skin contact

There may be mild irritation at the site of contact.

Eye contact

There may be irritation and redness.

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. Contain the spillage using bunding.

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.

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/m³.

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

State	Colour	Odour	pH (1% solution)
Powder.	White / Blue specks.	Pleasant.	11.0 - 12.0

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 PERCARBONATE	DERMAL	RBT	LD50	2000 mg/kg
	ORAL	RAT	LD50	1034 mg/kg
SODIUM METASILICATE	ORAL	MUS	LD50	770 mg/kg
	ORAL	RAT	LD50	1153 mg/kg
SODIUM DODECYL BENZENE SULPHONATE	ORAL	RAT	LD50	438 mg/kg

Relative effects for mixture

Effect	Route	Basis
Irritation	OPT	Hazardous: calculated

SECTION 12. Ecological information

12.1 Toxicity

Hazardous ingredients:

SODIUM CARBONATE

RAT 96H LC50 2800 mg/l

SODIUM PERCARBONATE

DAPHNIA 48H EC50 4.9 mg/l

FATHEAD MINNOWS 96H LC50 70.7 mg/l

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

Negligible Ecotoxicity.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Disposal operations	Do not mix with other chemicals. Transfer to a suitable container and arrange for collection by a specialised disposal company.
Disposal of packaging	Arrange for disposal by specialist disposal company.
NB	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14. Transport information

General: The product is not classified for transport

14.1 UN number

14.1 UN number

UN No. (ADR/RID)

UN No. (IMDG)

UN No. (ICAO)

14.2 UN proper shipping name

Proper shipping name (ADR/RID)

Proper shipping name (IMDG)

Proper shipping name (ICAO)

Proper shipping name (ADN)

14.3 Transport hazard class(es)

ADR/RID Class

IMDG Class

ICAO Class/Division

Transport Labels

14.4 Packing Group

ADR/RID Packing group

IMDG Packing group

ICAO Packing group

14.5 Environmental Hazards

Environmentally hazardous substance: No

Marine pollutant: No

14.6 Special precautions for user

Special Precautions None

Transport category

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 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.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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

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