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

1.1 Product identifier

Product name: AUTOMATIC DISHWASHER LIQUID

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

Wash additive for automatic dishwashing machines.

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

CHEMICAL SOLUTIONS UK
42 Kennel Lane
Fetcham
SURREY
08452500943
sales@chemical-solutions.co.uk

1.4 Emergency telephone number

07904953893

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP Regs.: Met Corr. 1, H290; Skin Corr. 1A, H314

2.2 Label elements

Label elements under CLP:

Contains Sodium hydroxide

Hazard pictograms: GHS05



Signal Word: Danger

Hazard Statements: H314: Causes severe skin burns and eye damage. H290: May be corrosive to metals.

Precautionary statements: PREVENTION: Keep only in original container. Do not breathe mist/spray. Wash hands thoroughly after handling. Wear protective gloves, clothing and eye protection.

RESPONSE: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

STORAGE: Store locked up.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

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3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CLP	Concentration w/w%
Phosphonate salt			
		Eye irrit 2 H319; Skin irrit 2 H315	5-10
Sodium hydroxide (REACH Reg.01-2119457892-27)			
1310-73-2	215-185-5	Met. Corr. 1 H290 Skin corr. 1A – H314	5-10
Trisodium nitriloacetate (REACH Reg. No. 01-2119519239-36)			
6834-92-0	229-912-9	Acute tox. 4 H302; Eye irrit.2 H319 Carc. 2 H351	2-5

See section 16 for full text of H statements.

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Remove contact lenses. Seek medical attention and continue rinsing.

Skin contact: Remove at once all contaminated clothing. Wash area with soap and water. Seek medical attention if any discomfort persists.

Ingestion: DO NOT induce vomiting. Rinse mouth thoroughly. Give plenty of water to drink and seek immediate medical attention.

Inhalation: Move to fresh air immediately. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects both acute and delayed

Burning or tissue damage from skin contact or contaminated clothing may not be felt immediately.

4.3 Indication of any immediate medical attention and special treatment needed

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials. Containers may be kept cool with water spray.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

Irritant fumes and oxides of carbon may be produced due to thermal decomposition.

5.3 Advice for firefighters

Self-contained breathing apparatus and full protective clothing should be worn. Increased pressure on heating may lead to rupture of containers with release of contents.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8 for protective measures.

6.2 Environmental precautions

Larger spillages or uncontrolled discharge into water courses must be notified immediately to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Spillages should be contained and absorbed in suitable inert material. Place in a suitable container for safe disposal according to local regulations.

6.4 Reference to other sections

Handling precautions in section 7 apply

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7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed in a cool place. Keep away from acids. Avoid contact with light metals such as aluminium zinc and tin.

7.3 Specific end use

Additive for automatic dishwashing machines. Industrial, institutional and commercial use only.

8. Exposure controls/personal protection

8.1 Control parameters

Substances assigned Workplace Exposure Limits

Name	type	Long term	Short term
Sodium hydroxide	WEL		2mg/m ³ (15 mins)

8.2 Exposure controls

Wear PVC or rubber gloves. Wear eye protection to prevent liquid splashes. Avoid inhalation of spray mist. Protective clothing such PVC apron or overalls to prevent contact with liquid splashes is recommended.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear colourless liquid,

Odour: Slight fatty

Density at 20°C: 1.08kg/ltr

Solubility: Completely soluble in water.

pH(1% solution): 13

Flash point: N/A

Boiling point/range:>100°C

Oxidising:No

9.2 Other information

No other relevant information.

10. Stability and reactivity

10.1 Reactivity

Alkaline products can react with light metals (aluminium, tin, zinc) with the evolution of hydrogen gas.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

May react with concentrated acids.

10.4 Conditions to avoid

10.5 Incompatible materials

Avoid contact with aluminium and light metals.

10.6 Hazardous decomposition products

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11. Toxicological information

11.1 Information on toxicological effects.

Sodium hydroxide LD₅₀: 325mg/kg (oral, rat)

Eyes: Severe pain, causes burns and corneal damage.

Skin: Chemical burns and tissue damage on prolonged contact.

Ingestion: Burns to mucous membranes, throat and stomach.

Inhalation (mist): Coughing, shortness of breath, irritation to membranes of nose and throat.

12. Ecological information

12.1 Toxicity

Sodium hydroxide LC50: 33 – 189ml/l (fish, 96hrs.)

Trisodium nitriloacetate LC50: >100mg/l (fish, 96hrs), EC50: >100mg/L (Daphnia, 48hrs)

12.2 Persistence and degradability

The product is easily biodegradable.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

The product is soluble in water.

12.5 Results of PBT and vPvB assessment

The product does not contain any ingredient identified as a PBT or vPvB substance.

12.6 Other adverse effects

Discharge into water courses will raise pH levels with the risk of harmful effects on aquatic organisms.

13. Disposal considerations

13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems.

Used packaging may be suitable for recycling after thorough washing with water.

14. Transport information

14.1 UN Number

1719

14.2 UN Proper shipping name

Caustic alkali liquid (sodium hydroxide)

14.3 Transport hazard class(es)

Class 8 (ADR, IMO, IATA)

14.4 Packing group

Group II

14.5 Environmental hazards

14.6 Special precautions for user

Tunnel code: E



15. Regulatory information

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

The Detergent Regulations may apply to this product. Contains less than 5% NTA, 5 – 15% Phosphonates.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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16. Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010

The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture. The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H351: Suspected of causing cancer

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008
CMR	Carcinogenic-mutagenic-toxic for reproduction
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
RID	Convention concerning International Carriage by Rail
WEL	Workplace Exposure Limit
VOC	Volatile Organic Compound