

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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GENESOL 704

Revision 2

Revision date 2012-12-11

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

1.1. Product identifier

Product name GENESOL 704

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

Description Water treatment chemicals.

1.3. Details of the supplier of the safety data sheet

Company	Genesys International Limited
Address	3A Aston Way, Midpoint 18, Middlewich, Cheshire, CW10 0HS
Web	www.genesysro.com
Telephone	+44 1606 837 605
Fax	+44 1606 837 558
Email	factory@genesysro.com

1.4. Emergency telephone number

Emergency telephone number +44 1606 837605

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC C; R35
Symbols: C: Corrosive.

Main hazards Causes severe burns.

2.2. Label elements

Symbols C: Corrosive.



Risk phrases R35 - Causes severe burns.

Safety phrases
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap and water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

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2.3. Other hazards

Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
tetrasodium ethylene diamine tetraacetate	607-428-00-2	64-02-8	200-573-9			Xn; R22 Xi; R41
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		10 - 20%	C; R35

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Bathe the eye with running water for 15 minutes.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	Causes severe burns. Causes serious eye damage.
Skin contact	Causes burns.
Ingestion	Ingestion causes burns to the respiratory tract.

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

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Corrosive. Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

6.4. Reference to other sections

See section 2,8,12,13 for further information.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7.3. Specific end use(s)

Membrane Cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Sodium hydroxide	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2

8.2. Exposure controls



8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear chemical protective clothing.

Eye / face protection

Approved safety goggles.

Skin protection - Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Wear suitable respiratory equipment when necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Powder/Granules.
Colour	White
Odour	Mild
pH	11.5 - 12.5
Melting point	Not determined
Freezing Point	Not applicable.
Boiling point	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability limits	Not determined
Vapour Flammability	Not determined
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Fat Solubility	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Viscosity	Not applicable.
Explosive	Not determined
Oxidising	Not determined
Solubility	Soluble in water

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9.2. Other information

Conductivity	Not applicable.
Surface tension	Not applicable.
Bulk Density	1.3 - 1.4 g/cm ³
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

Further information

pH @ ~1% solution.

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid contact with: Acids, Aluminium, Zinc.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Alkali metals. Aluminium. Strong acids. Strong bases. Strong oxidising agents. Zinc.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Serious eye damage/irritation	Causes burns. Causes serious eye damage.
Respiratory or skin sensitisation	No sensitization effects reported.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

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12.6. Other adverse effects

No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations.

Disposal methods

Contact a licensed waste disposal company.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

Further information

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN3262

14.2. UN proper shipping name

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Sodium Hydroxide)

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available.

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code F-A S-B

IATA

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IATA	
Packing Instruction (Cargo)	863
Maximum quantity	50 kg
Packing Instruction (Passenger)	859
Maximum quantity	15 kg

SECTION 15: Regulatory information

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

Regulations	<p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p>
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15.2. Chemical safety assessment

	No data is available on this product.
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SECTION 16: Other information

Other information	
Revision	<p>This document differs from the previous version in the following areas:.</p> <p>10 - 10.1. Reactivity.</p> <p>10 - 10.5. Incompatible materials.</p> <p>12 - 12.2. Persistence and degradability.</p> <p>12 - 12.3. Bioaccumulative potential.</p>
Text of risk phrases in Section 3	<p>R22 - Harmful if swallowed.</p> <p>R35 - Causes severe burns.</p> <p>R41 - Risk of serious damage to eyes.</p>
Further information	
	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.</p>