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**MATERIAL SAFETY DATA SHEET**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name: AMMONIA SOLUTION 32-34%SG 0.88  
CAS number: 1336-21-6  
EINECS number: 215-647-6  
Brand: Solmedia Ltd  
Product code: REA001-A

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

Identified uses – PC21: Laboratory chemicals.

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

- Name of Supplier: Solmedia Ltd.  
- Address of Supplier: Unit 2, Vernon Drive  
Battlefield Enterprise Park  
Shrewsbury  
SY1 3TF  
UK  
- Telephone: 0844 80 80 900  
- Email: labsupplies@solmedialtd.com

**1.4 Emergency telephone number**

Emergency Phone # +44 (0)844 80 80 900

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**SECTION 2: Hazards identification**

**Classification under CLP:** Acute Tox. 4: H302; Skin Corr. 1A: H314; STOT SE 3: H335; Aquatic  
Acute 1: H400

**Classification under CHIP:** -: C: R34; N: R50

**Most important adverse effects:** Harmful if swallowed. Causes severe skin burns and eye  
damage. May cause respiratory irritation. Very toxic to aquatic life.

**2.2 Label elements**

**Hazard statements:** H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion

GHS07: Exclamation mark

GHS09: Environmental

**Precautionary statements:** P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391: Collect spillage.

## 2.3 Other hazards

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**PBT:** This product is not identified as a PBT/vPvB substance.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical identity: AMMONIA SOLUTION 32-34%SG 0.88 (GW)

CAS number: 1336-21-6

EINECS number: 215-647-6

Contains: CAS-No. 1336-21-6

EC-No. 215-647-6

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

**Skin contact:** No data available

**Eye contact:** No data available

**Ingestion:** No data available

**Inhalation:** No data available

**Delayed / immediate effects:** No data available

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

No data available

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

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

Not applicable

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus

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### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate the area immediately. Refer to section 8 of SDS for personal protection details.

#### **6.2 Environmental precautions**

Do not discharge into drains or rivers

#### **6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal

## 6.4 Reference to other sections

Refer to section 13 of SDS

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Handling requirements:** Always open containers slowly to allow any excess pressure to vent. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

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

**Storage conditions:** Keep container tightly closed. Store in cool, well ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Suitable packaging:** Not applicable.

### 7.3 Specific end use(s)

No special requirement

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits: No data available

DNEL / PNEC No data available.

### 8.2 Exposure controls

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Full contact

Material: Butyl- rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 240 min

**Eye protection:** Tightly fitting safety goggles. Face-shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)..

**Skin protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental:** Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

### 9.2 Other safety information

Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Copper, Iron, Zinc

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. In combustion emits toxic fumes of nitrogen oxides.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Toxicity Values:

Route	Species	Test	Value	Units
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ORAL	RAT	LD50	350	mg/kg
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Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms / routes of exposure

**Skin contact:** No data available

**Eye contact:** No data available

**Ingestion:** No data available

**Inhalation:** No data available

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable

## SECTION 12: Ecological information

### 12.1 Toxicity

Ecotoxicity values:

Species	Test	Value	Units
DAPHNIA	96H LC50	25.4	mg/l

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No bioaccumulation potential

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

### 12.6 Other adverse effects

Very toxic to aquatic organisms

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

**Disposal operations:** Offer surplus and non-recyclable solutions to a licensed disposal Company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

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**SECTION 14: Transport information****14.1. UN number**

UN number: UN2672

**14.2. UN proper shipping name**

**Shipping name:** ADR/RID: AMMONIA SOLUTION

IMDG: AMMONIA SOLUTION

IATA: AMMONIA SOLUTION

**14.3. Transport hazard class(es)**

**Transport class:** 8

**14.4. Packing group**

**Packing group:** 3

**14.5. Environmental hazards**

**Environmentally hazardous:** Yes

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

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## SECTION 16: Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:** H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

R34: Causes burns.

R50: Very toxic to aquatic organisms

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.