SAFETY DATA SHEET
Household Ammonia

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product Name Household Ammonia

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

1.3. Details of the supplier of the safety data sheet
Supplier: Barrettine Works
St Ivel Way
Warmley
Bristol
BS30 8TY
0117 960 0060
0117 935 2437
sales@barrettine.co.uk

1.4. Emergency telephone number
0870 190 6777

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards
Not classified.
Human health Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT Single 3 - H335
Environment Not classified.

Classification (1999/45/EEC) Xi; R36/37/38.

Human Health
The product is strongly irritating to eyes and skin. Prolonged contact may cause burns.

Environment
The product contains a substance which is very toxic to aquatic organisms.

2.2. Label elements
Label In Accordance With (EC) No. 1272/2008

Signal Word Warning

Hazard Statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements
P102+405 Store locked up. Keep out of reach of children.
P271B Use only in a well ventilated area.
Household Ammonia

P261e Avoid breathing vapours.
P280a Wear protective gloves.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501B Dispose of contents/container to hazardous waste collection point.

Supplementary Precautionary Statements
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P332+313 If skin irritation occurs: Get medical advice/attention.
P403+233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>AMMONIA ...%</th>
<th>5-10%</th>
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</thead>
<tbody>
<tr>
<td>CAS-No.: 1336-21-6</td>
<td>EC No.: 215-647-6</td>
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<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Skin Corr. 18 - H314</td>
<td>C;R34</td>
</tr>
<tr>
<td>STOT Single 3 - H335</td>
<td>N;R50</td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information
Immediately remove affected person from source of exposure. Provide first-aid, rest, warmth and fresh air.

Inhalation.
Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact
Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

Eye Contact
May cause permanent damage if eye is not immediately irrigated. Check for contact lenses which must be removed from the eyes before rinsing.
Promptly rinse eyes with plenty of clean water while lifting the eyelids.
Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination.
Get medical attention if any discomfort or irritation persists.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media
This product is not flammable. Use fire-fighting measures appropriate to the surrounding circumstances and environment.

5.2. Special hazards arising from the substance or mixture

Specific Hazards
Fire or high temperatures create: Ammonia.
5.3. Advice for firefighters

Protective Measures In Fire
Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective clothing (see Section 8).

6.2. Environmental precautions
Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Flushings must not be allowed to contaminate ground or enter drains, sewers or water courses.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Use only in well ventilated areas. Avoid spilling, skin and eye contact. Do not breathe vapour or fumes. Use suitable protective clothing. (see section 8). Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONIA ...%</td>
<td>WEL</td>
<td>25 ppm</td>
<td>18 mg/m³</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>35 ppm</td>
<td>25 mg/m³</td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

Ingredient Comments
WEL = Workplace Exposure Limits

8.2. Exposure controls

Engineering Measures
Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory Equipment
If ventilation is insufficient suitable respiratory protection must be provided.

Seek recommendations and advice from equipment manufacturer or supplier.

Hand Protection
Wear suitable protective gloves conforming to EN 374. Seek recommendations from manufacturer or supplier. After using gloves the hands should be washed and dried thoroughly and a suitable moisturiser applied.

Eye Protection
Wear tightly fitting safety goggles conforming to EN166

Other Protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures
DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Household Ammonia

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Ammonia</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible in all proportions.</td>
</tr>
<tr>
<td>Odour Threshold, Lower ppm</td>
<td></td>
</tr>
<tr>
<td>Odour Threshold, Upper ppm</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal conditions of storage and use. See section 7.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid heat.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong alkalis. Aluminium. zinc

10.6. Hazardous decomposition products

When heated, toxic and corrosive vapours/gases may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin Sensitisation

Guinea Pig

Not Sensitising.

Inhalation

Vapours may irritate throat and respiratory system and cause coughing.

Ingestion.

May cause chemical burns in mouth, oesophagus and stomach.

Skin Contact

Strongly irritating. Prolonged contact may cause burns.

Eye Contact

Irritation of eyes and mucous membranes. May cause chemical eye burns.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product contains a substance which is very toxic to aquatic organisms.

12.1. Toxicity

Acute Toxicity - Fish LC50 96 hours 0.53 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic EC50 48 hours 24 mg/l Daphnia magna

Invertebrates

12.2. Persistence and degradability

Biodegradation Degradation (%): Water 70 < 28 days

12.3. Bioaccumulative potential
Household Ammonia

Bioaccumulative Potential: The product is not bioaccumulating.

12.4. Mobility in soil

Mobility: The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General Information
Product is hazardous waste. Do not allow into drains, sewers or water courses.
Disposal must be by means of a licensed waste contractor. Do not dispose to landfill or in water courses.

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

14.2 UN Proper shipping name

14.3 Transport hazard class(es)
Transport Labels No transport warning sign required.

14.4. Packing group

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments
Control of Substances Hazardous to Health Regulations (as amended). (COSHH)
Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009)
Management of Health & Safety at Work Regulations 1999.
Approved Code Of Practice
The Control of Substances Hazardous to Health Regulations 2002 (as amended). Approved code of practice and guidance.
Guidance Notes
CHIP for everyone HSG(108).
Introduction to Local Exhaust Ventilation HS(G)37.
COSHH essentials. 'Easy steps to control chemicals.' Only available on HSE's website and regularly updated at www.hse.gov.uk/pubns/guidance/index.htm
EU Legislation
EC Regulation 1907/2006 (as amended) : 'REACH'.
Dangerous Substances Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
EC Regulation 1272/2008 (as amended): CLP (Classification, labelling and packaging of substances and mixtures).
ADR (L’Accord européen relative au transport international des marchandises dangereuses par route.)
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15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments
No previous version.

Revision Date 13-SEP-11 - rev. 01:01026
Revision 01 dated 13-SEP-11

Risk Phrases In Full
R34 Causes burns.
R37 Irritating to respiratory system.
R50 Very toxic to aquatic organisms.

Hazard Statements In Full
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

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 guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.