

# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name or designation of the mixture** ACQ 1900 80/20

**Registration number** -

**Product registration number** Not available.

**Synonyms** None.

**Issue date** 24-February-2010

**Version number** 05

**Revision date** 17-October-2013

**Supersedes date** 09-October-2013

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

**Identified uses** Wood preservative (PT8) for industrial use against wood rotting fungi and wood destroying insects.

**Uses advised against** This product should only be used for the use described above.

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

UK

**Company name** Impra Wood Protection Ltd

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Barrow-in-Furness,  
Cumbria LA14 4EQ  
United Kingdom

**Telephone** +44 (0) 1229 877533

**Fax** +44 (0) 1229 430761

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**Website** www.impra.biz

**1.4 Emergency number** +44 (0) 23 8070 2576

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** C;R34, Xn;R20/21/22, N;R50/53

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

|                                                  |                                         |                                                 |
|--------------------------------------------------|-----------------------------------------|-------------------------------------------------|
| Acute toxicity, oral                             | Category 4                              | H302 - Harmful if swallowed.                    |
| Acute toxicity, dermal                           | Category 4                              | H312 - Harmful in contact with skin.            |
| Acute toxicity, inhalation                       | Category 4                              | H332 - Harmful if inhaled.                      |
| Skin corrosion/irritation                        | Category 1B                             | H314 - Causes severe skin burns and eye damage. |
| Specific target organ toxicity - single exposure | Category 3 respiratory tract irritation | H335 - May cause respiratory irritation.        |

##### Environmental hazards

|                                                     |            |                                    |
|-----------------------------------------------------|------------|------------------------------------|
| Hazardous to the aquatic environment - acute hazard | Category 1 | H400 - Very toxic to aquatic life. |
|-----------------------------------------------------|------------|------------------------------------|

Hazardous to the aquatic environment -  
long-term hazard

Category 1

H410 - Very toxic to aquatic life  
with long lasting effects.

## Hazard summary

|                              |                                                                                                                                                                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical hazards</b>      | Not classified for physical hazards.                                                                                                                                                                                                                                                                             |
| <b>Health hazards</b>        | Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Occupational exposure to the substance or mixture may cause adverse health effects.                                                                                                                                                  |
| <b>Environmental hazards</b> | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.                                                                                                                                                                                                                 |
| <b>Specific hazards</b>      | Prolonged exposure may cause chronic effects.<br>Causes burns. Risk of serious damage to eyes. Harmful by inhalation, in contact with skin and if swallowed.<br>Do not breathe dust/fume/gas/mist/vapors/spray. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. |
| <b>Main symptoms</b>         | May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Corrosive effects.                                                                                                                                                                                       |

## 2.2 Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Alkylmethylbenzylammonium chloride, Copper carbonate (basic), Monoethanolamine



|                          |                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal word</b>       | Danger                                                                                                                                                                                                                                                                                                  |
| <b>Hazard statements</b> | H302 - Harmful if swallowed.<br>H312 - Harmful in contact with skin.<br>H332 - Harmful if inhaled.<br>H314 - Causes severe skin burns and eye damage.<br>H335 - May cause respiratory irritation.<br>H400 - Very toxic to aquatic life.<br>H410 - Very toxic to aquatic life with long lasting effects. |

### Precautionary statements

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b> | P260 - Do not breathe mist or vapour.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P270 - Do not eat, drink or smoke when using this product.<br>P264 - Wash thoroughly after handling.<br>P273 - Avoid release to the environment.                                                                                                                                                                                                                                                                 |
| <b>Response</b>   | P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.<br>P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.<br>P310 - Immediately call a POISON CENTRE or doctor/physician. |
| <b>Storage</b>    | P405 - Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Disposal</b>   | P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Supplemental label information** Not applicable.

**2.3 Other hazards** Use biocides safely. Always read the label and product information before use.

## Section 3: Composition/information on ingredients

### Mixture

## General information

| Chemical name                      | %                                                                                                       | CAS-No. / EC No.        | REACH Registration No. | INDEX No.    | Notes |
|------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|------------------------|--------------|-------|
| Monoethanolamine                   | 20 - 30                                                                                                 | 141-43-5<br>205-483-3   | 01-2119486455-28-xxxx  | 603-030-00-8 | #     |
| <b>Classification:</b>             | <b>DSD:</b> C;R34, Xn;R20/21/22                                                                         |                         |                        |              |       |
|                                    | <b>CLP:</b> Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Acute Tox. 4;H332, STOT SE 3;H335 |                         |                        |              |       |
| Copper carbonate (basic)           | 10 - 20                                                                                                 | 12069-69-1<br>235-113-6 | Biocide                | -            | #     |
| <b>Classification:</b>             | <b>DSD:</b> Xn;R20-22, N;R50/53                                                                         |                         |                        |              |       |
|                                    | <b>CLP:</b> Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Acute 1;H400, Aquatic Chronic 1;H410          |                         |                        |              |       |
| Ammonia Solution (c>35%)           | 5 - 10                                                                                                  | 1336-21-6<br>215-647-6  | 01-2119488876-14-xxxx  | 007-001-01-2 |       |
| <b>Classification:</b>             | <b>DSD:</b> C;R34, N;R50                                                                                |                         |                        |              |       |
|                                    | <b>CLP:</b> Skin Corr. 1B;H314, STOT SE 3;H335, Aquatic Acute 1;H400                                    |                         |                        |              |       |
| Alkylmethylbenzylammonium chloride | 3 - 5                                                                                                   | 68424-85-1<br>270-325-2 | Biocide                | -            |       |
| <b>Classification:</b>             | <b>DSD:</b> C;R34, Xn;R21/22, N;R50                                                                     |                         |                        |              |       |
|                                    | <b>CLP:</b> Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Aquatic Acute 1;H400              |                         |                        |              |       |
| Ammonium Bicarbonate               | 1 - 3                                                                                                   | 1066-33-7<br>213-911-5  | 01-2119486970-26-xxxx  | -            |       |
| <b>Classification:</b>             | <b>DSD:</b> Xn;R22                                                                                      |                         |                        |              |       |
|                                    | <b>CLP:</b> Acute Tox. 4;H302                                                                           |                         |                        |              |       |

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

**Composition comments** The classification and risk phrases of the biocide ingredients in this formulation are as detailed in their BPD dossiers (98/8/EC)

The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

### General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 4.1 Description of first aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Centre immediately.

#### Skin contact

Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Call a physician or Poison Control Centre immediately.  
For minor skin contact, avoid spreading material on unaffected skin.  
Wash clothing separately before reuse.

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Centre immediately.

## Ingestion

If material is ingested, immediately contact a physician or poison control centre. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Corrosive effects.

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

Oxygen, if needed. Keep victim warm.  
Symptoms may be delayed. Treat symptomatically.

## Section 5: Firefighting measures

### General fire hazards

Non-combustible, substance itself does not burn.

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.  
Water Fog. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Powder.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Fire may produce irritating, corrosive and/or toxic gases.  
Do not allow the spilled product to enter public drainage system or open water courses.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing.

#### Special firefighting procedures

Move containers from fire area if you can do it without risk.  
Water runoff can cause environmental damage. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## Section 6: Accidental release measures

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

#### For non-emergency personnel

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Ventilate closed spaces before entering. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Avoid skin contact and inhalation of vapours during disposal of spills.

#### For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

### 6.2 Environmental precautions

Avoid release to the environment. Refer to special instructions/safety data sheets. Prevent further leakage or spillage if safe to do so.  
Do not contaminate water.  
Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

### 6.3 Methods and material for containment and cleaning up

Should not be released into the environment. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Prevent entry into waterways, sewers, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### 6.4 Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

## Section 7: Handling and storage

- 7.1 Precautions for safe handling** Use only with adequate ventilation. Do not breathe mist or vapour. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling. Do not empty into drains. Avoid release to the environment. Use appropriate container to avoid environmental contamination.
- 7.2 Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Store locked up. Keep in a bunded area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use appropriate container to avoid environmental contamination.
- 7.3 Specific end use(s)** Biocidal treatment

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

##### United Kingdom

| Components                               | Type | Value                          | Form                    |
|------------------------------------------|------|--------------------------------|-------------------------|
| Copper carbonate (basic)<br>(12069-69-1) | STEL | 2 mg/m <sup>3</sup>            | as Cu (dusts and mists) |
|                                          | TWA  | 1 mg/m <sup>3</sup>            | as Cu (dusts and mists) |
| Monoethanolamine<br>(141-43-5)           | STEL | 3 ppm                          |                         |
|                                          |      | 7.6 mg/m <sup>3</sup>          |                         |
|                                          | TWA  | 2.5 mg/m <sup>3</sup><br>1 ppm |                         |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

#### DNEL

| Components                  | Type     | Route      | Value                 | Form                       |
|-----------------------------|----------|------------|-----------------------|----------------------------|
| Monoethanolamine (141-43-5) | Industry | Dermal     | 1 mg/kg bw/day        | long term, systemic effect |
|                             |          | Inhalation | 3.3 mg/m <sup>3</sup> | long term, local effect    |

#### PNEC

| Components                  | Type           | Route    | Value       | Form               |
|-----------------------------|----------------|----------|-------------|--------------------|
| Monoethanolamine (141-43-5) | Not applicable | Sediment | 0.425 mg/kg | dry wt, freshwater |
|                             |                | Soil     | 0.035 mg/kg | dry wt             |
|                             |                | STP      | 100 mg/l    |                    |
|                             |                | Water    | 0.085 mg/l  | freshwater         |

### 8.2 Exposure controls

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment

- General information** Keep working clothes separately. Eye wash fountain and emergency showers are recommended.
- Eye/face protection** Do not get this material in contact with eyes. Wear safety glasses with side shields (or goggles). Chemical goggles are recommended.
- Skin protection**
- **Hand protection** Chemical resistant gloves. (EN374)

|                                        |                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Other</b>                         | Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.                                   |
| <b>Respiratory protection</b>          | In case of insufficient ventilation, wear suitable respiratory equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. |
| <b>Thermal hazards</b>                 | Not applicable.                                                                                                                                                                                                                                                                                                 |
| <b>Hygiene measures</b>                | When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.                                           |
| <b>Environmental exposure controls</b> | Avoid release to the environment. Contain spills and prevent releases and observe national regulations on emissions.<br>Environmental manager must be informed of all major releases.                                                                                                                           |

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                                |                                               |
|----------------------------------------------------------------|-----------------------------------------------|
| <b>Physical state</b>                                          | Liquid.                                       |
| <b>Form</b>                                                    | Liquid. Clear.                                |
| <b>Colour</b>                                                  | Dark blue.                                    |
| <b>Odour</b>                                                   | Slightly ammoniacal                           |
| <b>pH</b>                                                      | 9.0 - 10.0                                    |
| <b>Melting point/freezing point</b>                            | Not available.                                |
| <b>Boiling point, initial boiling point, and boiling range</b> | Not available.                                |
| <b>Flash point</b>                                             | Not applicable                                |
| <b>Auto-ignition temperature</b>                               | Not applicable                                |
| <b>Flammability (solid, gas)</b>                               | Not available                                 |
| <b>Flammability limit - lower (%)</b>                          | Not applicable                                |
| <b>Flammability limit - upper (%)</b>                          | Not applicable                                |
| <b>Vapour pressure</b>                                         | 194.00 hPa estimated                          |
| <b>Vapour density</b>                                          | Not applicable.                               |
| <b>Evaporation rate</b>                                        | Not applicable.                               |
| <b>Relative density</b>                                        | Not available.                                |
| <b>Density</b>                                                 | 1.20 g/cm <sup>3</sup>                        |
| <b>Solubility (water)</b>                                      | Soluble                                       |
| <b>Partition coefficient (n-octanol/water)</b>                 | Not available.                                |
| <b>Decomposition temperature</b>                               | Not available.                                |
| <b>Viscosity</b>                                               | Not available.                                |
| <b>Percent volatile</b>                                        | Not available.                                |
| <b>9.2 Other information</b>                                   | No relevant additional information available. |

## Section 10: Stability and reactivity

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | Material is stable under normal conditions.               |
| <b>10.2 Chemical stability</b>                 | Stable at normal conditions.                              |
| <b>10.3 Possibility of hazardous reactions</b> | Hazardous polymerisation does not occur.                  |
| <b>10.4 Conditions to avoid</b>                | Avoid heat and direct sunlight                            |
| <b>10.5 Incompatible materials</b>             | Strong oxidizing agents. Strong acids.                    |
| <b>10.6 Hazardous decomposition products</b>   | Toxic gas. Irritants. Nitrogen oxides (NO <sub>x</sub> ). |

## Section 11: Toxicological information

**General information** Not available.

### Information on likely routes of exposure

**Ingestion** Causes digestive tract burns. Harmful if swallowed.

**Inhalation** Harmful if inhaled.

**Skin contact** Causes severe skin burns. Harmful in contact with skin.  
Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

**Eye contact** Causes severe eye burns.

**Symptoms** May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Permanent eye damage including blindness could result.

### 11.1 Information on toxicological effects

**Acute toxicity** Causes severe skin burns and eye damage. Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin.

| Product                                                   | Test results                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACQ 1900 80/20 (Mixture)                                  | Acute Dermal LD50 Rabbit: 3800 mg/kg bw (product)<br>Acute Inhalation LC50 Rat: 4.5 mg/l (product)<br>Acute Oral LC50 Rat: 1116 mg/kg bw (product)                                                                                                                                            |
| Components                                                | Test results                                                                                                                                                                                                                                                                                  |
| Ammonium Bicarbonate (1066-33-7)                          | Acute Other LD50 Mouse: 245 mg/kg                                                                                                                                                                                                                                                             |
| Monoethanolamine (141-43-5)                               | Acute Dermal LD50 Rabbit: 2504 - 2881 mg/kg bw<br>Acute Inhalation LC50 Rat: > 1.3 mg/l 6.00 hours saturated air<br>Acute Oral LD50 Rat: 1089 - 1515 mg/kg bw                                                                                                                                 |
| <b>Skin corrosion/irritation</b>                          | Causes severe skin burns and eye damage.                                                                                                                                                                                                                                                      |
| <b>Serious eye damage/eye irritation</b>                  | Causes severe eye burns.                                                                                                                                                                                                                                                                      |
| <b>Respiratory sensitisation</b>                          | May cause irritation to the respiratory system.                                                                                                                                                                                                                                               |
| <b>Skin sensitisation</b>                                 | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.<br><br>Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.<br><br>This product is not classified as a potential skin sensitiser |
| <b>Germ cell mutagenicity</b>                             | Not available.                                                                                                                                                                                                                                                                                |
| <b>Carcinogenicity</b>                                    | Not available.                                                                                                                                                                                                                                                                                |
| <b>Reproductive toxicity</b>                              | Not available.                                                                                                                                                                                                                                                                                |
| <b>Specific target organ toxicity - single exposure</b>   | May cause irritation to the respiratory system.                                                                                                                                                                                                                                               |
| <b>Specific target organ toxicity - repeated exposure</b> | May cause damage to organs through prolonged or repeated exposure by skin contact. Liver.<br>Kidneys.                                                                                                                                                                                         |
| <b>Aspiration hazard</b>                                  | Not available.                                                                                                                                                                                                                                                                                |
| <b>Mixture versus substance information</b>               | None known                                                                                                                                                                                                                                                                                    |
| <b>Other information</b>                                  | Not available.                                                                                                                                                                                                                                                                                |

## Section 12: Ecological information

### 12.1 Toxicity

| Product                  | Test results                                                                                       |
|--------------------------|----------------------------------------------------------------------------------------------------|
| ACQ 1900 80/20 (Mixture) | EC50 Algae: 4.8 mg/l 72.00 Hours NOEC 1.25mg/l<br>EC50 Daphnia: 0.2 mg/l 48.00 Hours NOEC 0.1 mg/l |

| Product                          | Test results                                                                                                                                                                                                                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACQ 1900 80/20 (Mixture)         | EC50 Daphnia: 0.06 mg/l 21.00 days Toxicity for reproduction<br>LOEC Daphnia: 0.1 mg/l Toxicity for reproduction<br>NOEC Daphnia: 0.03 mg/l Toxicity for reproduction<br>LC50 Fish: 0.45 mg/l 96.00 Hours<br>NOEC Fish: 0.32 mg/l |
| Components                       | Test results                                                                                                                                                                                                                      |
| Ammonium Bicarbonate (1066-33-7) | LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss):<br>16.1 - 18.7 mg/l 96.00 hours                                                                                                                                         |
| Monoethanolamine (141-43-5)      | EC50 Algae: 2.5 mg/l 72.00 hours<br>LC50 Carp (Cyprinus carpio carpio): 349 mg/l 96.00 hours<br>EC50 Daphnia: 65 mg/l 48.00 hours                                                                                                 |

\* Estimates for product may be based on additional component data not shown.

|                                                   |                                                                                                                                                                                                                                 |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.2 Persistence and degradability</b>         | No data is available on the degradability of this product.                                                                                                                                                                      |
| <b>12.3 Bioaccumulative potential</b>             | Not available.                                                                                                                                                                                                                  |
| <b>Mobility</b>                                   | The product is miscible with water. May spread in water systems.                                                                                                                                                                |
| <b>Environmental fate - Partition coefficient</b> | Not available.                                                                                                                                                                                                                  |
| <b>12.4 Mobility in soil</b>                      | The product is miscible with water. May spread in water systems.                                                                                                                                                                |
| <b>12.5 Results of PBT and vPvB assessment</b>    | Not available.                                                                                                                                                                                                                  |
| <b>12.6 Other adverse effects</b>                 | Components of this product are hazardous to aquatic life.<br>May cause long-term adverse effects in the aquatic environment.<br>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Residual waste</b>               | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).<br>Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground. Do not allow this material to drain into sewers/water supplies.                                                        |
| <b>Contaminated packaging</b>       | Since emptied containers may retain product residue, follow label warnings even after container is emptied.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                                                                                     |
| <b>EU waste code</b>                | Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                                                                                                |
| <b>Disposal methods/information</b> | This material and its container must be disposed of as hazardous waste.<br>Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies.<br>Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |

## Section 14: Transport information

### ADR

|                                     |                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>14.1 UN number</b>               | UN1760                                                                                                    |
| <b>14.2 UN proper shipping name</b> | Corrosive liquid, n.o.s. (Alkylmethylbenzylammonium chloride, Monoethanolamine, Copper carbonate (basic)) |



14.3 Transport hazard class(es) 8  
 Subsidiary class(es) -  
 14.4 Packing group III  
 Labels required 8  
 14.6 Special precautions for user Not available.

**IATA**

14.1 UN number UN1760  
 14.2 UN proper shipping name Corrosive liquid, n.o.s. (Alkylmethylbenzylammonium chloride, Monoethanolamine, Copper carbonate (basic))  
 14.3 Transport hazard class(es) 8  
 Subsidiary class(es) -  
 14.4 Packing group III  
 Environmental hazards No  
 14.6 Special precautions for user Not available.

**IMDG**

14.1 UN number UN1760  
 14.2 UN proper shipping name Corrosive liquid, n.o.s. (Alkylmethylbenzylammonium chloride, Monoethanolamine, Copper carbonate (basic))  
 14.3 Transport hazard class(es) 8  
 Subsidiary class(es) •  
 14.4 Packing group III  
 Marine pollutant Not classified as a marine pollutant  
 EmS No. F-A, S-B  
 14.6 Special precautions for user Not available.



ADR



IATA



IMDG

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

**Section 15: Regulatory information**

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

**EU regulations**

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V**

Not listed.

**Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)**

Copper carbonate (basic) (CAS 12069-69-1)

**Regulation (EC) No. 1907/2006, Article 59(1). Candidate List**

Not listed.

**Other regulations**

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.  
The product is classified and labelled in accordance with EC directives or respective national laws.

**National regulations**

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**Inventory status**

| Country(s) or region        | Inventory name                                                    | On inventory (yes/no)* |
|-----------------------------|-------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                    | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                               | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)        | Yes                    |
| Europe                      | European Inventory of New and Existing Chemicals (EINECS)         | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)            | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)          | Yes                    |
| Korea                       | Existing Chemicals List (ECL)                                     | Yes                    |
| New Zealand                 | New Zealand Inventory                                             | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                     | Yes                    |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**Section 16: Other information****List of abbreviations****References**

Not available.

**Information on evaluation method leading to the classification of mixture**

Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15**

R20 Harmful by inhalation.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R21/22 Harmful in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R34 Causes burns.  
R37 Irritating to respiratory system.  
R50 Very toxic to aquatic organisms.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H312 - Harmful in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

**Training information**

Read safety instructions, SDS and emergency procedures before handling.

**Disclaimer**

MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.

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