



SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 08.12.2014

### 1.1. Product identifier

Product name Refresher RES

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

Use of the substance/preparation Waterbased refresher for finished floors.

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

Company name Arboritec AB  
 Postal address Olof Wijksväg 9  
 Postcode SE-444 65  
 City Jörlanda  
 Country Sverige  
 Tel 0303-563 30  
 Fax 0303-563 32  
 E-mail post@arboritec.com  
 Website http://www.arboritec.com  
 Contact person Jörgen Kaldemark

### 1.4. Emergency telephone number

Emergency telephone In case of medical emergency call:112

## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

### 2.2. Label elements

Composition on the label Ammonia ...%:< 1 %

### 2.3. Other hazards

Other hazards When spray applying see section 8.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Substance    | Identification   | Classification  | Contents |
|--------------|--|---|----------|
| Ammonia ...% | CAS no.: 1336-21-6<br>EC no.: 215-647-6<br>Index no.: 007-001-01-2 | C; R34<br>N; R50<br>Skin Corr 1B;H314;<br>Aquatic Acute 1;H400; | < 1 %    |
| Note : B     |  |   |          |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |   |
|--------------|---|
| General      | Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.   |
| Inhalation   | Use with adequate ventilation.  |
| Skin contact | Remove/Take off immediately all contaminated clothing.<br>IF ON SKIN: Gently wash with plenty of soap and water. Do NOT use solvents or thinners.                                 |
| Eye contact  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. |
| Ingestion    | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.   |

#### 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

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | Recommended extinguishing media : alcohol resistant foam, CO <sub>2</sub> , powders, water spray. Do not use water jet. |
|------------------------------|---|

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

|                            |   |
|----------------------------|---|
| Fire and explosion hazards | Fire will produce dense black smoke. Decomposition products can be hazardous. At high temperatures create: Carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), smoke, nitrogen gases (NO <sub>x</sub> ). |
|----------------------------|---|

#### 5.3. Advice for firefighters

|                               |  |
|-------------------------------|--|
| Personal protective equipment | Wear respiratory protection.   |
| Other Information             | Eliminate all ignition sources if safe to do so. Do not allow run-off from fire fighting to enter drains or water courses. |

### SECTION 6: Accidental release measures

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

|                              |   |
|------------------------------|---|
| General measures             | Se punkt 7 och 8.   |
| Personal protection measures | In case of inadequate ventilation wear respiratory protection. Wear fire / flame resistant / retardant clothing. Use personal protective equipment as required. Wear cold insulating gloves / face shield / eye protection. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |

#### 6.2. Environmental precautions

|                                      |   |
|--------------------------------------|---|
| Environmental precautionary measures | Collect spillage. Avoid release to the environment. If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations. |
|--------------------------------------|---|

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

|                 |   |
|-----------------|---|
| Cleaning method | Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. |
|-----------------|---|

#### 6.4. Reference to other sections

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|          |  |
|----------|--|
| Handling | Avoid spilling, skin- and eye contact. Avoid breathing dust / fume / gas / mist / vapours / spray. Avoid breathing dust. |
|----------|--|

## Protective Safety Measures

|                            |  |
|----------------------------|--|
| Protective Safety Measures | Smoking, eating and drinking should be prohibited in application area. Remove contaminated clothing and protective gear before you get to an area where meals are taken. |
| Additional information     | For personal protection see Section 8. Never use pressure to empty : container is not a pressure vessel.   |

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

|                     |  |
|---------------------|--|
| Storage             | Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Store in a closed container. Keep cool. Protect from sunlight. Comply with the health and safety at work laws. |
| Conditions To Avoid | Protect from sunlight. Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Prevent unauthorized access.   |

## Conditions for safe storage

|                     |                            |
|---------------------|----------------------------|
| Storage Temperature | Value: 5-25 grader Celsius |
|---------------------|----------------------------|

## 7.3. Specific end use(s)

|                 |   |
|-----------------|---|
| Recommendations | Do not handle until all safety precautions have been read and understood. |
|-----------------|---|

## Specific end users

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

| Substance    | Identification   | Value | TWA Year |
|--------------|--|-------|----------|
| Ammonia ...% | CAS no.: 1336-21-6<br>EC no.: 215-647-6<br>Index no.: 007-001-01-2 |       |          |

### 8.2. Exposure controls

#### Precautionary measures to prevent exposure

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | Use with adequate ventilation. If possible this should be achieved by local extraction and good exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory equipment. |
|----------------------------------|---|

#### Respiratory protection

|                        |  |
|------------------------|--|
| Respiratory protection | Respiratory protection with gas filter (brown A) must be used if air concentration exceeds acceptable level (OEL). |
| Mask type              | When spraying, use half-or full face mask with filter P2 (Iib) to spray.   |

#### Hand protection

|   |  |
|---|--|
| Hand protection                           | Wear cold insulating gloves / face shield / eye protection.  |
| Skin-/ hand protection, long term contact | For prolonged or repeated contact use gloves made of butyl rubber.   |
| Suitable materials                        | Barrier creams may help to protect the skin, but they should however not be used once exposure has occurred. |

#### Eye / face protection

|                         |   |
|-------------------------|---|
| Suitable Eye Protection | Wear cold insulating gloves / face shield / eye protection. |
|-------------------------|---|

#### Skin protection

|                                |   |
|--------------------------------|---|
| Skin protection (except hands) | Wear fire / flame resistant / retardant clothing. |
|--------------------------------|---|

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |         |
|----------------|---------|
| Physical state | Liquid. |
| Odour          | Svag    |

|  |   |
|--|---|
| Comments, Odour limit                              | Not applicable.   |
| Comments, pH (as supplied)                         | Not determined.   |
| Comments, pH (aqueous solution)                    | Not determined.   |
| Comments, Melting point / melting range            | Not determined.   |
| Comments, Boiling point / boiling range            | Not determined.   |
| Flash point  | Value: > 105 °C   |
| Comments, Evaporation rate                         | Not determined.   |
| Flammability (solid, gas)                          | Not determined  |
| Comments, Explosion limit                          | Not applicable.   |
| Comments, Vapour pressure                          | Not determined.   |
| Comments, Vapour density                           | Not determined.   |
| Specific gravity                                   | Value: 1 g/ml<br>Method of testing: ASTM 6450<br>Test temperature: 23 °C                |
| Solubility in water                                | unlimited.  |
| Comments, Partition coefficient: n-octanol / water | Not applicable.   |
| Comments, Decomposition temperature                | Not determined  |
| Explosive properties                               | Not explosive.  |
| Oxidising properties                               | Not Oxidising.  |
| <b>9.2. Other information</b>                      |   |
| Content Of Voc                                     | Value: 0 g/l<br>Comments: Initial boiling point less than or equal to 250 grad Celsius. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No reactive.

### 10.2. Chemical stability

Stability Stable under recommended storage and handling conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous if handled according to Technical Information.

### 10.4. Conditions to avoid

Conditions to avoid No applicable.

### 10.5. Incompatible materials

Materials to avoid Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reaction.

### 10.6. Hazardous decomposition products

Hazardous decomposition products When exposed to high temperature may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological data for substances

#### Potential acute effects

|              |  |
|--------------|--|
| Inhalation   | May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | No information is available.   |
| Eye contact  | No information available.  |
| Ingestion    | Ingestion may cause nausea and vomiting.                             |

|  |   |
|--|---|
| Skin corrosion / irritation, other information | No information available.   |
| Aspiration hazard, human experience            | When applying see section 8.  |
| Eye damage or irritation other info            | If splashed in the eyes, the liquid may cause irritation and reversible damage. |

**Delayed effects / repeated exposure**

|   |   |
|---|---|
| General respiratory or skin sensitisation | Prolonged or repeated contact may defat the skin, resulting in non-allergic contact eczema and absorption through the skin. |
| STOT-single exposure                      | No information available.   |
| STOT-repeated exposure                    | No information available.   |

**Carcinogenic, Mutagenic or Reprotoxic**

|  |                              |
|--|------------------------------|
| Carcinogenicity human experience         | No information is available. |
| Germ Cell Mutagenicity, human experience | No information available.    |
| Reproductive toxicity                    | No information available.    |

**SECTION 12: Ecological information**

**12.1. Toxicity**

|                   |  |
|-------------------|--|
| Aquatic, comments | Ammonia is very toxic to aquatic life. |
|-------------------|--|

**Toxicological data for substances**

**12.2. Persistence and degradability**

|                               |                 |
|-------------------------------|-----------------|
| Persistence and degradability | Not determined. |
|-------------------------------|-----------------|

**12.3. Bioaccumulative potential**

|                            |                 |
|----------------------------|-----------------|
| Bioaccumulation evaluation | Not determined. |
|----------------------------|-----------------|

**12.4. Mobility in soil**

|          |                 |
|----------|-----------------|
| Mobility | Not determined. |
|----------|-----------------|

**12.5. Results of PBT and vPvB assessment**

|                        |  |
|------------------------|--|
| PBT assessment results | Not classified as PBT / vPvB of current EU criteria. |
|------------------------|--|

**12.6. Other adverse effects**

|                                 |             |
|---------------------------------|-------------|
| Other adverse effects / Remarks | None known. |
|---------------------------------|-------------|

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

|   |   |
|---|---|
| Specify the appropriate methods of disposal | Avoid release to the environment. Collect spillage.   |
| Product classified as hazardous waste       | Yes   |
| EWC waste code                              | EWC: 08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |

**SECTION 14: Transport information**

**14.1. UN number**

**14.2. UN proper shipping name**

|           |     |
|-----------|-----|
| ADR       | --- |
| RID       | --- |
| IMDG      | --- |
| ICAO/IATA | --- |

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

**14.4. Packing group****14.5. Environmental hazards**

IMDG Marine pollutant No

**14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                             |  |
|-----------------------------|--|
| Legislation and regulations | Classification and labeling of substances according to Regulation (EC) 1272/2008 (CLP) is in section 3.<br>Classification and labeling of substances according to Regulation (EC) 1272/2008 (CLP) is in section 2.<br><br>Safety data sheet is designed according to EU Commission Regulation No. 1907/2006. |
|-----------------------------|--|

**15.2. Chemical safety assessment**

Chemical safety assessment performed No

**SECTION 16: Other information**

|  |   |
|--|---|
| List of relevant R-phrases (under headings 2 and 3). | R34 Causes burns.<br>R50 Very toxic to aquatic organisms.   |
| List of relevant H-phrases (Section 2 and 3).        | H400 Very toxic to aquatic life.<br>H314 Causes severe skin burns and eye damage.   |
| Version  | 1   |
| Responsible for safety data sheet                    | Arboritec AB  |
| Comments   | The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products' properties. |