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

1.1 Product identifier

Trade name: Crystalbond 590-S Stripper

Article number: AGB7323

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

Crystalbond 590-S stripper is an environmentally safe, water-dispersible, powder concentrate prepared primarily for use with Crystalbond 590 and other mounting waxes. It can also be used for the removal of silicones, greases, oils, soils, finishing compounds and other contaminants. It is non-reactive with metals and non-flammable.

Product category Solvent Powder Concentrate

Application of the substance / the preparation: No further relevant information.

1.3 Details of the supplier of the safety data sheet

Supplier.

Agar Scientific Ltd
Parsonage Lane
Stansted CM24 8GF
United Kingdom
sales@agarscientific.com
Tel: +44 (0) 1279 813 519

Further information obtainable from: Technical Support

1.4 Emergency telephone number: 24 hours: +44 (0)1856 407333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05  GHS07

Signal word Danger

Hazard-determining components of labelling:
Silicic Acid, Disodium Salt
Sodium Tripolyphosphate

Hazard statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

(Contd. on page 2)
H335 May cause respiratory irritation.

**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see on this label).
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

  **Dangerous components:**

<table>
<thead>
<tr>
<th>CAS:</th>
<th>Chemical Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>6834-92-0</td>
<td>Silicic Acid, Disodium Salt</td>
<td>87.0%</td>
</tr>
<tr>
<td>EINECS: 229-912-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7758-29-4</td>
<td>Sodium Tripolyphosphate</td>
<td>13.0%</td>
</tr>
<tr>
<td>EINECS: 231-838-7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **General information:**
    Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - **After inhalation:**
    No adverse effects are anticipated from inhalation. Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.
  - **After skin contact:**
    Wash with water and soap and rinse thoroughly. Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.
  - **After eye contact:**
    Rinse opened eye for several minutes under running water. Then consult a doctor. Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.
  - **After swallowing:**
    Call for a doctor immediately.
**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**: This material is non-combustible.
- **5.2 Special hazards arising from the substance or mixture**: During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**: Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**: Wear gloves. Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.
- **6.2 Environmental precautions**: Do not allow to enter sewers/surface or ground water.
- **6.3 Methods and material for containment and cleaning up**: Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Avoid breathing dust. Use vacuuming or sweeping compound for cleanup. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. Flush area with water to complete cleanup.
- **6.4 Reference to other sections**: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**: Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
- **Information about fire - and explosion protection**: Extinguishing media: Water fog - dried resin only.
SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:
  Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

- 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information:
    The lists valid during the making were used as basis.
    Silicic Acid, Disodium Salt (6834-92-0): TLV=2 mg/m³, PEL=2 mg/m³;
    Sodium Tripolyphosphate (7758-29-4): TLV=5 mg/m³, PEL=5 mg/m³.

- 8.2 Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      Keep away from foodstuffs, beverages and feed.
      Remove all soiled and contaminated clothing
      Wash hands before breaks and at the end of work.
      Avoid contact with the eyes.
      Avoid contact with the eyes and skin.
  - Respiratory protection:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
    Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Powder
    - Colour: White
    - Odour: Odourless
    - Odour threshold: Not determined.
  - **pH-value at 20 °C:** >13
  - **Change in condition**
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: Undetermined.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gas):** Not determined.
  - **Decomposition temperature:** Not determined.
  - **Auto-ignition temperature:** Product is not selfigniting.
  - **Explosive properties:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapour pressure:** Not applicable.
  - **Density:** Not determined.
  - **Relative density:** Not determined.
  - **Vapour density:** Not applicable.
  - **Evaporation rate:** Not applicable.
  - **Solubility in / Miscibility with water:** Soluble.
  - **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - Dynamic: Not applicable.
    - Kinematic: Not applicable.
  - **Solvent content:**
    - Solids content: 100.0 %
  - **9.2 Other information**
    - No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** This material is hygroscopic.
Trade name: Crystalbond 590-S Stripper

- **Thermal decomposition / conditions to be avoided:**
  No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions**
  No dangerous reactions known.

- **10.4 Conditions to avoid**
  No further relevant information available.

- **10.5 Incompatible materials:**
  Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

- **10.6 Hazardous decomposition products:**
  Hydrogen.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**
  Harmful if swallowed.

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6834-92-0 Silicic Acid, Disodium Salt</td>
</tr>
<tr>
<td>Oral LD50 1,280 mg/kg (rat)</td>
</tr>
<tr>
<td>7758-29-4 Sodium Tripolyphosphate</td>
</tr>
<tr>
<td>Oral LD50 3,900 mg/kg (rat)</td>
</tr>
</tbody>
</table>

- **Skin corrosion/irritation**
  Causes severe skin burns and eye damage.

- **Serious eye damage/irritation**
  Causes serious eye damage.
  Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

- **Respiratory or skin sensitisation**
  Dust is a severe irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.
  This component is not considered to have sensitizing effects according to current labeling rules.

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
  **Germ cell mutagenicity**
  No evidence of genotoxicity. In vitro/in vivo negative.

- **Carcinogenicity**
  This component is not considered as carcinogenic and not listed by IARC, NTP or OSAH as carcinogens.

- **Reproductive toxicity**
  No evidence of reproductive toxicity or developmental toxicity.

- **STOT-single exposure**
  May cause respiratory irritation.

- **STOT-repeated exposure**
  Based on available data, the classification criteria are not met.

- **Aspiration hazard**
  Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  No further relevant information available.

- **12.2 Persistence and degradability**
  Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

- **12.3 Bioaccumulative potential**
  Inorganic. The substance has no potential for bioaccumulation.

- **12.4 Mobility in soil**
  No further relevant information available.

- **Other information:**
  The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.
Trade name: Crystalbond 590-S Stripper

- **Additional ecological information:**
  - **General notes:**
    Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    Must not reach sewage water or drainage ditch undiluted or unneutralised.
    Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- **12.5 Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR, IMDG, IATA: UN3253

- **14.2 UN proper shipping name**
  - ADR: DISODIUM TRIOXOSILICATE mixture
  - IMDG, IATA: DISODIUM TRIOXOSILICATE mixture

- **14.3 Transport hazard class(es)**
  - ADR, IMDG, IATA: Class 8 Corrosive substances.

- **14.4 Packing group**
  - ADR, IMDG, IATA: III

- **14.5 Environmental hazards:**
  - Marine pollutant: No

- **14.6 Special precautions for user**
  - Danger code (Kemler): 80
  - EMS Number: F-A, S-B
  - Segregation groups
    - Alkalis
  - Stowage Category: A
  - Segregation Code: SG35 Stow "separated from" SGG1-acids

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.
Trade name: Crystalbond 590-S Stripper

### Transport/Additional information:

- **ADR**
  - Limited quantities (LQ) 5 kg
  - Excepted quantities (EQ) Code: E1
    - Maximum net quantity per inner packaging: 30 g
    - Maximum net quantity per outer packaging: 1000 g

- **Transport category** 3
- **Tunnel restriction code** E

- **IMDG**
  - Limited quantities (LQ) 5 kg
  - Excepted quantities (EQ) Code: E1
    - Maximum net quantity per inner packaging: 30 g
    - Maximum net quantity per outer packaging: 1000 g

- **UN "Model Regulation":** UN 3253 DISODIUM TRIOXOSILICATE MIXTURE, 8, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H290 May be corrosive to metals.
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.

- **Department issuing SDS:** Sales department
- **Contact:** sales@agarscientific.com
  - Tel: +44 (0) 1279 813 519

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Met. Corr.1: Corrosive to metals – Category 1
  - Acute Tox. 4: Acute toxicity - oral – Category 4
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Trade name: Crystalbond 590-S Stripper

- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- * Data compared to the previous version altered.