

# Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 21.09.2018

Version number 1

Revision Date 21.09.2018

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

- **1.1 Product identifier** AGG3648
- **Trade name:** Quick Drying Silver Paint
- **Article number:** AGG3691
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:** No further data available
- **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**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

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**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
4-methylpentan-2-one
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H332 Harmful if inhaled.  
H319 Causes serious eye irritation.  
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.

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- P103 Read label before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- 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.
- 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:**

|                   |                                                                                 |       |
|-------------------|---------------------------------------------------------------------------------|-------|
| CAS: 108-10-1     | 4-methylpentan-2-one                                                            | 60.0% |
| EINECS: 203-550-1 | ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335 |       |

- **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:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
No adverse effects are anticipated from inhalation.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Water fog - dried resin only.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Positive pressure self-contained breathing apparatus.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective gloves and glasses.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
The dried resin is combustible, similar to wood. Burning dry resin emits dense, black smoke. As latex, material is not combustible.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

#### 108-10-1 4-methylpentan-2-one

|     |                                                                                                                  |
|-----|------------------------------------------------------------------------------------------------------------------|
| WEL | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm<br>Sk, BMGV |
|-----|------------------------------------------------------------------------------------------------------------------|

- **Ingredients with biological limit values:**

#### 108-10-1 4-methylpentan-2-one

|      |                                                                                            |
|------|--------------------------------------------------------------------------------------------|
| BMGV | 20 µmol/L<br>Medium: urine<br>Sampling time: post shift<br>Parameter: 4-methylpentan-2-one |
|------|--------------------------------------------------------------------------------------------|

- **Additional information:** The lists valid during the making were used as basis.

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- **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.
- **Protection of hands:**



Protective gloves

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.
- **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Fluid
  - Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/freezing point:** Undetermined.
  - Initial boiling point and boiling range:** 117 °C
- **Flash point:** 16 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** 460 °C

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|                                                  |                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|
| · <b>Decomposition temperature:</b>              | Not determined.                                                                             |
| · <b>Auto-ignition temperature:</b>              | Product is not selfigniting.                                                                |
| · <b>Explosive properties:</b>                   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                       |                                                                                             |
| Lower:                                           | 1.4 Vol %                                                                                   |
| Upper:                                           | 8 Vol %                                                                                     |
| · <b>Vapour pressure at 20 °C:</b>               | 21 hPa                                                                                      |
| · <b>Density at 20 °C:</b>                       | 4.6806 g/cm <sup>3</sup>                                                                    |
| · <b>Relative density</b>                        | Not determined.                                                                             |
| · <b>Vapour density</b>                          | Not determined.                                                                             |
| · <b>Evaporation rate</b>                        | Not determined.                                                                             |
| · <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.                                                           |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                                                                             |
| · <b>Viscosity:</b>                              |                                                                                             |
| Dynamic:                                         | Not determined.                                                                             |
| Kinematic:                                       | Not determined.                                                                             |
| · <b>Solvent content:</b>                        |                                                                                             |
| Organic solvents:                                | 60.0 %                                                                                      |
| VOC (EC)                                         | 60.00 %                                                                                     |
| Solids content:                                  | 40.0 %                                                                                      |
| · <b>9.2 Other information</b>                   | No further relevant information available.                                                  |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **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:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if inhaled.

### · LD/LC50 values relevant for classification:

#### 108-10-1 4-methylpentan-2-one

|            |          |                     |
|------------|----------|---------------------|
| Oral       | LD50     | 2,080 mg/kg (rat)   |
| Dermal     | LD50     | 16,000 mg/kg (rab)  |
| Inhalative | LC50/4 h | 8.3-16.6 mg/l (rat) |

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.

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- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **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.
- **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.

## SECTION 14: Transport information

- |                                                                                     |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
| · <b>14.1 UN-Number</b>                                                             | UN1263                          |
| · <b>ADR, IMDG, IATA</b>                                                            |                                 |
| · <b>14.2 UN proper shipping name</b>                                               | 1263 PAINT mixture              |
| · <b>ADR</b>                                                                        | PAINT mixture, MARINE POLLUTANT |
| · <b>IMDG</b>                                                                       | PAINT mixture                   |
| · <b>IATA</b>                                                                       |                                 |
| · <b>14.3 Transport hazard class(es)</b>                                            |                                 |
| · <b>ADR, IATA</b>                                                                  |                                 |
|  |                                 |
| · <b>Class</b>                                                                      | 3 Flammable liquids.            |

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|                                                                                   |                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · Label                                                                           | 3                                                                                                               |
| · IMDG                                                                            |                                                                                                                 |
|  |                                                                                                                 |
| · Class                                                                           | 3 Flammable liquids.                                                                                            |
| · Label                                                                           | 3                                                                                                               |
| · 14.4 Packing group                                                              |                                                                                                                 |
| · ADR, IMDG, IATA                                                                 | II                                                                                                              |
| · 14.5 Environmental hazards:                                                     |                                                                                                                 |
| · Marine pollutant:                                                               | Symbol (fish and tree)                                                                                          |
| · 14.6 Special precautions for user                                               | Warning: Flammable liquids.                                                                                     |
| · Danger code (Kemler):                                                           | 33                                                                                                              |
| · EMS Number:                                                                     | F-E, S-E                                                                                                        |
| · Stowage Category                                                                | B                                                                                                               |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code         | Not applicable.                                                                                                 |
| · Transport/Additional information:                                               |                                                                                                                 |
| · ADR                                                                             |                                                                                                                 |
| · Limited quantities (LQ)                                                         | 1L                                                                                                              |
| · Excepted quantities (EQ)                                                        | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · Transport category                                                              | 2                                                                                                               |
| · Tunnel restriction code                                                         | D/E                                                                                                             |
| · IMDG                                                                            |                                                                                                                 |
| · Limited quantities (LQ)                                                         | 1L                                                                                                              |
| · Excepted quantities (EQ)                                                        | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation":                                                          | UN 1263 PAINT MIXTURE, 3, II                                                                                    |

## 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.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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.

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· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

GB