

# Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 01.03.2019

Version number 1

Revision Date 01.03.2019

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

- **1.1 Product identifier**
- **Trade name: Solvent for Polymerised Resin**
- **Article number:** AGR1346
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Solvent
- **Application of the substance / the preparation:** No further information is 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**



GHS08 health hazard

Carc. 2      H351 Suspected of causing cancer.



GHS07

Acute Tox. 4   H302 Harmful if swallowed.

Skin Irrit. 2   H315 Causes skin irritation.

Eye Irrit. 2    H319 Causes serious eye 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**



GHS07



GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
 dichloromethane  
 formic acid
- **Hazard statements**  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H351 Suspected of causing cancer.
- **Precautionary statements**  
 P280                      Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312              IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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P330 Rinse mouth.

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: 75-09-2	dichloromethane	80.0%
EINECS: 200-838-9	☠ Carc. 2, H351; ⚠ Acute Tox. 4, H302	
CAS: 64-19-7	Acetic acid	7.0%
EINECS: 200-580-7	🔥 Flam. Liq. 3, H226; ☠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H312	
CAS: 64-18-6	formic acid	7.0%
EINECS: 200-579-1	☠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	

- **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.  
MAIN HAZARDS: Limited evidence of a carcinogenic effect. Harmful in contact with skin.  
OTHER HAZARDS: Harmful in contact with skin. Harmful if swallowed. Toxic by inhalation. Causes burns. Irritating to skin. Irritating to eyes.
- **After inhalation:**  
No adverse effects are anticipated from inhalation.  
Remove casualty from exposure ensuring one's own safety whilst doing so.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
Wash immediately with plenty of soap and water. Consult a doctor.
- **After eye contact:**  
Rinse opened eye under running water. If symptoms persist, consult a doctor.  
Bathe the eye with running water for 15 minutes. Consult a doctor.
- **After swallowing:**  
Call for a doctor immediately.  
Wash out mouth with water. Consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Hazards**  
SKIN CONTACT: There may be irritation and redness at the site of contact.  
EYE CONTACT: There may be pain and redness.  
INGESTION: Corrosive burns may appear around the lips. There may be soreness and redness of the mouth and throat.  
INHALATION: There may be irritation of the throat with a feeling of tightness in the chest.

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- **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:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.
- **5.2 Special hazards arising from the substance or mixture** Toxic. Corrosive.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Refer to section 8 for personal protection details.
- **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.  
Mix with sand or vermiculite.
- **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**  
Open and handle receptacle with care.  
Avoid direct contact with the substance.
- **Information about fire - and explosion protection:**  
Extinguishing media: Water fog - dried resin only.  
Avoid heat and hot surfaces.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in cool, well ventilated area.  
Suitable packaging: Glass.
- **Information about storage in one common storage facility:**  
Materials to avoid: Alkali metals, Aluminium.
- **Further information about storage conditions:** Keep container tightly sealed.
- **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:**

**75-09-2 dichloromethane**

WEL	Short-term value: 706 mg/m <sup>3</sup> , 200 ppm Long-term value: 353 mg/m <sup>3</sup> , 100 ppm BMGV, Sk
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**64-19-7 Acetic acid**

WEL	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
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**64-18-6 formic acid**

WEL	Long-term value: 9.6 mg/m <sup>3</sup> , 5 ppm
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**Ingredients with biological limit values:**
**75-09-2 dichloromethane**

BMGV	30 ppm Medium: end-tidal breath Sampling time: post shift Parameter: carbon monoxide
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· **Additional information:** The lists valid during the making were used as basis.

· **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.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **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.

Nitrile gloves advised.

· **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:**

Safety glasses



Tightly sealed goggles

· **Body protection:** Acid-resistant protective clothing.

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**SECTION 9: Physical and chemical properties**

· <b>9.1 Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Recognisable
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b> Not determined.	
· <b>Change in condition</b>	
· <b>Melting point/freezing point:</b>	-97 °C
· <b>Initial boiling point and boiling range:</b>	40 °C
· <b>Flash point:</b> Not applicable.	
· <b>Flammability (solid, gas):</b> Not applicable.	
· <b>Ignition temperature:</b> 485 °C	
· <b>Decomposition temperature:</b> Not determined.	
· <b>Auto-ignition temperature:</b> Product is not selfigniting.	
· <b>Explosive properties:</b> Product does not present an explosion hazard.	
· <b>Explosion limits:</b>	
· <b>Lower:</b>	13 Vol %
· <b>Upper:</b>	22 Vol %
· <b>Vapour pressure at 20 °C:</b> 453 hPa	
· <b>Density:</b> Not determined.	
· <b>Relative density</b> Not determined.	
· <b>Vapour density</b> Not determined.	
· <b>Evaporation rate</b> Negligible	
· <b>Solubility in / Miscibility with water:</b> Slightly solubl	
· <b>Partition coefficient: n-octanol/water:</b> Not determined.	
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	87.0 %
· <b>VOC (EC)</b>	87.00 %
· <b>Solids content:</b> 0.0 %	
· <b>9.2 Other information</b> Also soluble in Diethyl ether, Acetone.	

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
In combustion emits toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride/ phosgene.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Heat. Hot surfaces.
- **10.5 Incompatible materials:** Alkali metals, Alumunium.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

Harmful if swallowed.

- **LD/LC50 values relevant for classification:**

75-09-2 dichloromethane		
Oral	LD50	1,600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)
64-18-6 formic acid		
Oral	LD50	1,100 mg/kg (rat)

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **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**

Suspected of causing cancer.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

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

- **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** Only slightly biodegradable.

- **12.3 Bioaccumulative potential** Slightly bioaccumulable.

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

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** Harmful to aquatic organisms.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods** Incineration on land.

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Recommendation:**  
Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

## SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">UN2922</p>
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p style="text-align: right;">2922 CORROSIVE LIQUID, TOXIC, N.O.S. CORROSIVE LIQUID, TOXIC, N.O.S.</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	<p style="text-align: right;">8 Corrosive and 6.1 toxic</p>
<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p style="text-align: right;">8 Corrosive substances. 8</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> </ul>	<p style="text-align: right;">II</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	<p style="text-align: right;">No</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	<p style="text-align: right;">Warning: Corrosive substances.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	<p style="text-align: right;">Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p style="text-align: right;">UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8</p>

## 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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 59
- **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**  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H351 Suspected of causing cancer.
- **Department issuing SDS:** Sales department

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**Trade name: Solvent for Polymerised Resin***(Contd. of page 7)***· 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. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Carc. 2: Carcinogenicity – Category 2

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