

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

1.1 Product identifier

Trade name: PVA Release Agent

Product code:

RA10 PVA Release Agent Blue Gloss

RA11 PVA Release Agent Clear Gloss

RA12 PVA Release Agent Blue Matt

RA13 PVA Release Agent Clear Matt

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

Application of the substance / the mixture

Mould release agents for composite mouldings.

For industrial or professional use only

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Llewellyn Ryland Ltd

Haden Street, Birmingham B12 9DB, United Kingdom

Tel: +44 (0)121 440 2284

Fax: +44 (0)121 440 0281

Email: technical@llewellyn-ryland.co.uk

1.4 Emergency telephone number: Llewellyn Ryland Ltd, Tel: +44 (0)121 440 2284 (office hours only , 7am - 7pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

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



GHS02 GHS07

Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional information:

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

2.3 Other hazards Vapours may form ignitable mixture with air.

Results of PBT and vPvB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg. No.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	25 - 50%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg. No.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	≤ 2.5%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-methylisothiazol-3(2H)-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	< 0.0015%

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:

In case of accident or if you feel unwell seek medical advice immediately (show label or SDS where possible).

After inhalation:

Remove person to fresh air and keep comfortable for breathing.
Seek medical treatment in case of complaints.

After skin contact:

Remove all contaminated clothing immediately. Drench the affected skin with plenty of water. In case of redness or irritation, consult a doctor.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.

After swallowing:

Rinse out mouth with plenty of water. If symptoms of indisposition persist, seek medical advice.
Do not induce vomiting without medical advice.

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 Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, dry chemical powder, foam or water spray

For safety reasons unsuitable extinguishing agents: Water with full jet

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

Protective equipment:

In the case of fire wear self-contained respiratory equipment and protective suit.



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Do not inhale explosion gases or combustion gases.

Additional information

Evacuate area and remove all ignition sources.

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

Dispose of fire debris and contaminated fire fighting water according to the regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Turn leaking containers leak-side up to prevent the escape of liquid.

Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow to enter sewers, surface or ground water.

Contain the spilled material by bunding.

6.3 Methods and material for containment and cleaning up:

Absorb with non-combustible absorbent material, (eg sand, diatomite, vermiculite).

Place into suitable and labelled containers for disposal.

Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

Prevent formation of aerosols.

Avoid any contact with skin, eyes and clothes.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash hands before break and at the end of work.

Information about fire - and explosion protection:

Keep away from heat, sparks, open flames and hot surfaces. No smoking.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Ground and bond container and receiving equipment.

7.2 Conditions for safe storage, including any incompatibilities**Requirements to be met by storerooms and receptacles:**

Store in tightly closed containers in a cool and well ventilated place.

Protect from heat and direct sun.

Information about storage in one common storage facility:

Do not store food, beverages and animal feeding stuffs in the storage area.

Store away from strong acids or strong oxidising agents.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) Use only according to instructions.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:**CAS: 64-17-5 ethanol**WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm**CAS: 67-56-1 methanol**WEL (Great Britain) Short-term value: 333 mg/m³, 250 ppm; Long-term value: 266 mg/m³, 200 ppm; Sk**Regulatory information** WEL (Great Britain): EH40/2020

8.2 Exposure controls

Appropriate engineering controls Provide sufficient ventilation, particularly in closed areas.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace.

Remove contaminated clothing and wash carefully before reuse.

Do not breathe gas/vapours/spray.

Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection: Not necessary in compliance with instructions for use.**Hand protection**

Chemical resistant gloves

Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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.

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/face protection

Tightly sealed goggles (EN 166)

Ensure eye bath is to hand.

Body protection: Protective clothing recommended.**Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Fluid
Form:	Liquid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available.
Lower and upper explosion limit:	No data available.
Flash point:	23 °C
Auto-ignition temperature:	No data available.
pH:	8
Viscosity	
dynamic:	No data available.
kinematic at 25 °C:	0.45 - 0.55 St



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Solubility water:	No data available.
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Density:	No data available.
9.2 Other information	
Explosive properties:	No data available
Oxidising properties:	No data available.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity** Stable under recommended transport or storage conditions.
- 10.2 Chemical stability** Stable at ambient temperature and under normal conditions of use.
- 10.3 Possibility of hazardous reactions** Vapours may form ignitable mixture with air.
- 10.4 Conditions to avoid** Keep away from heat, sparks, open flames and hot surfaces.
- 10.5 Incompatible materials:** Strong acids, strong oxidising agents
- 10.6 Hazardous decomposition products:** Decomposes at high temperatures may form toxic gases.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification: No further relevant information available.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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 Based on available data, the classification criteria are not met.

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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.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:** For the product there are no ecotoxicological data 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.**12.5 Results of PBT and vPvB assessment** Not applicable.**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.**12.7 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Transfer to a suitable container and arrange for collection by specialised disposal company.**Uncleaned packaging:****Recommendation:**

Disposal must be made according to official regulations.

Not completely emptied packaging is to be disposed of in the same manner as the product.

SECTION 14: Transport information**14.1 UN number or ID number**
ADR, IMDG, IATA

UN1170

14.2 UN proper shipping name
ADR
IMDG
IATA1170 ETHANOL (ETHYL ALCOHOL) solution
ETHANOL (ETHYL ALCOHOL) solution
ETHANOL solution**14.3 Transport hazard class(es)****ADR****Class**

3 (F1) Flammable liquids.

Label

3

IMDG, IATA**Class**

3 Flammable liquids.

Label

3

14.4 Packing group
ADR, IMDG, IATA

III

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code):

30

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.



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UN "Model Regulation":

UN 1170 ETHANOL (ETHYL ALCOHOL) SOLUTION, 3, III

SECTION 15: Regulatory information

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

Seveso category P5c FLAMMABLE LIQUIDS**National regulations:** -**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrases

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H370 Causes damage to organs.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008:
Calculation method

Date of previous version: 09.07.2015

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EINECS: European Inventory of Existing Commercial Chemical Substances
WEL: workplace exposure limit
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent and very bioaccumulative properties
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Data compared to the previous version altered: Section 1,2,3,4,5,6,7,8,9,11,12,15,16