

SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Safety Data Sheet following

Issue: September 21

PRODUCT: PolySolve
Other Names: None
Uses: Solvent for polymers and rubbers
Signal Word: None

UN No.:	N/R
Dangerous Goods Class:	N/R
Subsidiary Risk:	None
Packing Group:	N/R
Hazchem Code:	N/R
Poisons Schedule:	None

Hazardous Nature:	This product is classified as not hazardous according to Australian GHS criteria.
Hazard Statement:	No GHS Hazard Classification applies
Exposure Standards:	TWA: None established: consider 200 mg/m ³ ; STEL: None established: consider 300 mg/m ³ ; Peak Limitation (if any): None; Skin Sensitiser (if any): none. Refer to Section 8 for further information and definitions.

Physical Characteristics (Typical)		Section 9 of the SDS
Appearance	Clear, colourless mobile liquid	
Boiling Point/Range (°C):	200	
Flash Point (°C):	100	
Specific Gravity/Density (g/ml @ 20°C):	1.09	
pH:	5.0 – 7.0 (5% soln)	
Chemical Stability:	Stable at room temperature and pressure	
Reactivity:	Extreme heat, oxidising agents, strong acids and alkalis	

Product Ingredients			Section 3 of the SDS
Ingredient	CAS Number	Proportion	
Solvent Ester: incorporating Dimethyl Adipate, Dimethyl Glutarate, Dimethyl Succinate	various including: 627-93-0, 1119-40-0, 106-65-0	> 70	
Methanol	67-56-1	≤ 2.0	

For further ingredients information, please refer to the full MSDS

Pictograms	Section 2 of the SDS
Not hazardous: intentionally left blank	

DEFINITIONS

Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. For example, in small doses, some products are harmless, but with increased concentration or exposure these products can be extremely harmful. The classification indicates First Aid, etc.

1. IDENTIFICATION

Product Name: PolySolve
Other Names: None
Chemical Family: Solvent intermediate
Molecular Formula: None
Recommended Use: Solvent for polymers and rubbers
Supplier: Clark Rubber
ACN: 065 708 723
Address: 1/6 Elizabeth Street, Hawthorn, Victoria 3122
Telephone: +61 3 8727 9925
All Other Inquiries: +61 3 8727 9925

2. HAZARDS IDENTIFICATION

Hazardous Nature

This product is classified as not hazardous according to Australian GHS criteria.

Hazard Statement

No GHS Hazard Classification applies

Pictograms

Not hazardous: intentionally left blank

Hazard

Not hazardous: intentionally left blank

Hazard Statements

Not hazardous: intentionally left blank

Precautionary Statements

Not hazardous: intentionally left blank

Dangerous Goods Classification N/R

Poisons Schedule None

Signal Word None

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Solvent Ester: incorporating Dimethyl Adipate, Dimethyl Glutarate, Dimethyl Succinate	various including: 627-93-0, 1119-40-0, 106-65-0	> 70
Methanol	67-56-1	≤ 2.0

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush area with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and use soap if available. Remove contaminated clothing, including shoes and laundry before reuse. Seek immediate medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Water spray, carbon dioxide, dry powder, or chemical foam

Hazards from combustion products

Carbon dioxide, carbon monoxide

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code N/R

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

7. HANDLING AND STORAGE

Precautions for Safe Handling

This product is combustible. Do not use in situations of extreme heat. Avoid contact with naked flames or ignition sources. Use appropriate industrial hygiene practices.

Conditions for Safe Storage

Store in a cool, dry place away from sunlight. Keep container closed and protect packaging from physical damage. Check regularly for product leaks.

Incompatible Materials

Will solvate natural rubbers, polystyrene, most household plastics

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: None established: consider 200 mg/m³, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: None established: consider 300 mg/m³, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sen), where none applies in this case.

Biological Limit Values (BLV)

None established

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Clear, colourless mobile liquid
Boiling Point/Range	°C	200
Flash Point	°C	100
SG/Density (@ 20°C)	g/ml; kgm ⁻³	1.09
Vapour Pressure @ 20°C	kPa	0.006
Vapour Density @ 40°C	g/ml; kgm ⁻³	> 1.0
Autoignition Temperature	°C	360
Explosive Limits in Air	% vol/vol	0.8 – 9.0
Viscosity @ 20°C	cPs, mPas	2.9 mPa.s
Percent volatiles	% vol/vol	100
Acidity/alkalinity as pH	None	5.0 – 7.0 (5% soln)

Property	Unit of measurement	Typical Value
Solubility in Water	g/l	Partially miscible in water
Other solvents	-	Common organic solvents

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to avoid

Extreme heat, oxidising agents, strong acids and alkalis

Hazardous decomposition products

Carbon dioxide, carbon monoxide and other complexes on incomplete burning or oxidation

Hazardous reactions

None known

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Swallowing will result in discomfort, irritation to mouth, throat and oesophagus. Some narcotic effects are likely: dizziness, euphoria, headaches, and nausea.

Eye Contact

Contact with eyes will result in mild irritation, tearing and redness.

Skin Contact

Contact with skin is likely to result in defatting of the tissue, or mild irritation in some cases.

Inhalation

Inhalation of the vapour is unlikely at ambient temperature. Elevated temperatures may produce irritant vapours. Inhalation of product mists will be irritating to the throat, nose, mucous membranes and result in coughing and slight shortness of breath.

Chronic Effects

Prolonged or repeated exposure to this product may result in defatting of the skin.

Other Health Effects Information

Persons with pre-existing respiratory or skin conditions may be sensitive to this product.

Toxicological Information

Oral LD₅₀: No data available

Dermal LD₅₀: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC₅₀: No data available

Daphnia Magna EC₅₀: No data available

Blue-green algae: No data available

Green algae: No data available

Persistence/Biodegradability:

This product is expected to biodegrade on exposure to light and air.

Mobility:

This product is expected to be mobile on dilution with the potential to contaminate groundwater, soil and grasslands.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	N/R	UN No.	N/R	UN No.	N/R
Proper Shipping Name	Solvent intermediate	Proper Shipping Name	Solvent intermediate	Proper Shipping Name	Solvent intermediate
DG Class	N/R	DG Class	N/R	DG Class	N/R
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	N/R	Packing Group	N/R	Packing Group	N/R
Hazchem	N/R	Hazchem	N/R	Hazchem	N/R

Dangerous Goods Segregation

This product is not classified as Dangerous Goods for Transport by Road and Rail.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: None

16. OTHER INFORMATION

Reasons for Issue: Updated SDS format; amalgamated changes in all sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

ASCC: Australian Safety and Compensation Council

References:

- Supplier Safety Data Sheets
- <http://hsis.safework.gov.au/SearchHS.aspx> (29 November 2016)
- Animal toxicology data: <http://chem.sis.nlm.nih.gov/chemidplus> (29 November 2016)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (29 November 2016)
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2005)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact A1 Rubber.
