

# SAFETY DATA SHEET

## Purasolve Paint Equipment Cleaner

Infosafe No.: MTMAA  
ISSUED Date: 27/02/2017  
Issued by: Envirofluid

### 1. IDENTIFICATION

**GHS Product Identifier**

Purasolve Paint Equipment Cleaner

**Product Code**

ESPEC-5, ESPEC-20, ESPEC-200

**Company Name**

Envirofluid

**Address**

39 Coghlan Road Warrnambool  
Victoria 3280 Australia

**Telephone/Fax Number**

Tel: 1800 777 580 (8am - 5pm AEST)  
Fax: 1300 777 580

**Emergency phone number**

1800 638 556 (24h) / +61 3 5564 6455

**E-mail Address**

info@envirofluid.com

**Recommended use of the chemical and restrictions on use**

A low odour and fully recyclable safety solvent for resin and paint pot and application equipment clean-up. Replaces MEK, Toluene blends, Acetone, Xylene and gunwash.

**Additional Information**

High flash point 63°C, low vapour pressure <1, high vapour density >4.7 and Boiling Point 171°C

### 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Eye Damage/Irritation: Category 2A

Flammable Liquids: Category 4

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

Sensitization - Skin: Category 1

Skin Corrosion/Irritation: Category 2

**Signal Word (s)**

WARNING



#### Hazard Statement (s)

H227 Combustible liquid.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

#### Pictogram (s)

Exclamation mark, Environment



#### Precautionary statement – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370+P378 In case of fire: Use dry chemical, carbon dioxide or foam for extinction.  
 P391 Collect spillage.

#### Precautionary statement – Storage

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

#### Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	CAS	Proportion
Propylene carbonate	108-32-7	>75-100 %
D-Limonene	5989-27-5	<25 %
Ingredients determined not to be hazardous.		Balance



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## 4. FIRST-AID MEASURES

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### **Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

### **Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

### **Skin**

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

### **Eye contact**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

### **First Aid Facilities**

Eye wash, safety shower and normal washroom facilities.

### **Advice to Doctor**

Treat symptomatically.

### **Other Information**

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

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## 5. FIRE-FIGHTING MEASURES

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### **Suitable Extinguishing Media**

Use carbon dioxide, dry chemical or foam.

### **Unsuitable Extinguishing Media**

Water jet

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including hydrocarbons, carbon monoxide, carbon dioxide and oxides of nitrogen.

### **Specific Hazards Arising From The Chemical**

Combustible. This product will readily burn under fire conditions.

### **Hazchem Code**

•3Z

### **Decomposition Temperature**

Not available

### **Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.



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## 6. ACCIDENTAL RELEASE MEASURES

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### Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene by washing hands prior to eating, drinking, smoking or using toilet facilities.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

### Storage Regulations

Classified as a Class C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

### Biological Limit Values

No biological limits allocated.

### Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.



### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Where an inhalation risk exists, wear a Type A (Organic vapour) respirator.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### **Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### **Hand Protection**

Wear gloves of impervious material such as Viton or PVA. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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### **Form**

Liquid

### **Appearance**

Clear liquid

### **Odour**

Slight citrus

### **Decomposition Temperature**

Not available

### **Melting Point**

Not available

### **Boiling Point**

171°C (initial)

### **Solubility in Water**

Slightly soluble

### **Specific Gravity**

0.98

### **pH**

Not available

### **Vapour Pressure**

< 1 mm Hg (25°C)

### **Vapour Density (Air=1)**

>4.7



**Evaporation Rate**

< 0.02 (n-Butyl acetate= 1)

**Odour Threshold**

Not available

**Viscosity**

Not available

**Volatile Component**

17%

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

63°C (Closed cup)

**Flammability**

Combustible

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

0.7%

**Flammable Limits - Upper**

6.1%

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## 10. STABILITY AND REACTIVITY

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**Reactivity**

Reacts with incompatibles.

**Chemical Stability**

Stable under normal conditions of storage and handling.

**Conditions to Avoid**

Heat, flames, sparks and other ignition sources.

**Incompatible materials**

Oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).

**Hazardous Decomposition Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including hydrocarbons, carbon monoxide, carbon dioxide and oxides of nitrogen.

**Possibility of hazardous reactions**

Not available

**Hazardous Polymerization**

Not expected to occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicity data available for this material. Data available for ingredients is given below.

**Acute Toxicity - Oral**



D-Limonene

LD50 (rat): 4400 mg/kg

Propylene carbonate

LD50 (mouse): 20.7 g/kg

#### **Acute Toxicity - Inhalation**

Propylene carbonate

LCLo (rat): > 5 g/m<sup>3</sup>

#### **Acute Toxicity - Dermal**

D-Limonene

LD50(rabbit): > 5 g/kg

Propylene carbonate

LD50 (rabbit): > 20 mL/kg

#### **Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting, dizziness and drowsiness.

#### **Inhalation**

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in dizziness, nausea and headache.

#### **Skin**

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.

#### **Eye**

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

#### **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

#### **Skin Sensitisation**

May cause an allergic skin reaction.

#### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

#### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

D-limonene is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

#### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

#### **STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

#### **STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

#### **Aspiration Hazard**

Not expected to be an aspiration hazard.

#### **Other Information**

D-Limonene

LD50 (intraperitoneal, mouse): 600 mg/kg

LD50 (intravenous, rat): 110 mg/kg

LD50 (subcutaneous, mouse): 3170 mg/kg

LDLo (subcutaneous, rat): 30,200 mg/kg

TDLo (oral, mouse): 67 g/kg/39 weeks intermittently



Propylene carbonate  
LD50 (subcutaneous): 11.1 g/kg (mouse)

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## 12. ECOLOGICAL INFORMATION

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### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

### **Persistence and degradability**

Not available

### **Mobility**

Slightly soluble in water

### **Bioaccumulative Potential**

Not available

### **Other Adverse Effects**

If released to the atmosphere limonene is expected to rapidly undergo oxidation reactions with hydroxyl radicals, ozone and nitrate radicals. If released to soil or water limonene is expected to rapidly volatilise from surface. Adsorption is also thought to be significant.

### **Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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### **Disposal considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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### **Transport Information**

Road and Rail transport (ADG):

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:

packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 3082





Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains D-Limonene) - MARINE POLLUTANT

DG Class: 9

Packaging Group: III

EMS No.: F-A, S-F

Special provisions: 274, 335, 969

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 3082

Proper Shipping Name: : Environmentally hazardous substance, liquid, n.o.s. (Contains D-Limonene)

Class: 9

Packing Group: III

Hazard Label: Miscellaneous

Packing Instruction: 964 (For passenger and cargo aircraft)

Packing Instruction: 964 (For cargo aircraft only)

Special provisions: A97, A158, A197

**U.N. Number**

3082

**UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Contains D-Limonene)

**Transport hazard class(es)**

9

**Packing Group**

III

**Hazchem Code**

•3Z

**Special Precautions for User**

Not available

**IERG Number**

47

**IMDG Marine pollutant**

Yes

**Transport in Bulk**

Not available

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## 15. REGULATORY INFORMATION

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poisons Schedule**

Not Scheduled



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## 16. OTHER INFORMATION

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### Date of preparation or last revision of SDS

SDS reviewed: February 2017

Supersedes: January 2013

### References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

## END OF SDS

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