

# LIQUID PARTS WASH

## MATERIAL SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	LIQUID PARTS WASH	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	LPW25, LPW200	<b>TULLAMARINE VIC 3043</b>
Date:	June 2011	ABN: 40 959 725 049 <b>(03) 9338 6655 (BH)</b> <b>(03) 9336 7945 (AH)</b>

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	LIQUID PARTS WASH		
<b>Company Name:</b>	QUICK SMART PRODUCTS		
<b>Address:</b>	53 Assembly Drive Tullamarine Vic 3043		
<b>Telephone/Fax:</b>	(03) 9338 6655 (BH)	Poisons Information Centre 131126 (AH)	Fax: (03) 9335 2598
<b>Recommended Use:</b>	Large industrial parts washing units.		

### 2. HAZARDS IDENTIFICATION

<b>Statement of Hazardous/Dangerous Nature:</b>	HAZARDOUS SUBSTANCE. DANGEROUS GOODS Classified as Hazardous according to the criteria of NOHSC Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)
<b>Symbol(s):</b>	Xn Harmful N Dangerous
<b>R-phrases(s):</b>	R10 Flammable R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
<b>S-phrases(s):</b>	S23 Do not breathe vapor. S24 Avoid contact with skin. S61 Avoid release to the environment. Refer to special instructions/safety data sheets. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. S2 Keep out of the reach of children.
<b>Health Hazards:</b>	Vapors may cause drowsiness and dizziness. May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking. Harmful: may cause lung damage if swallowed. Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Auditory system. Central nervous system (CNS).
<b>Signs and Symptoms:</b>	Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Other signs and symptoms of central nervous system (CNS) depression may include headache, nausea, and lack of coordination. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Auditory system effects may include temporary hearing loss and/or ringing in the ears.
<b>Safety Hazards:</b>	Flammable. In use, may form flammable/explosive vapor-air mixture. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.
<b>Environmental Hazards:</b>	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
<b>SUSDP Schedule:</b>	5

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**CAS No:** 64742-82-1  
**INDEX No:** 649-330-00-2  
**EINECS No:** 265-185-4

#### Hazardous Components:

Chemical Name	CAS	EINECS	Symbol(s)	R-phrases(s)	Conc.
1,2,4-Trimethyl benzene	95-63-6	202-436-9	Xi, N	R20; R36/37/38; R51/53	< 10.00 %W
1,3,5-Trimethyl benzene	108-67-8	203-604-4	Xi, N	R37; R51/53	< 10.00 %W
Xylene, Mixed Isomers	1330-20-7	215-535-7	Xn	R10; R20/21; R38	< 10.00 %W

**Additional Information:** Refer to chapter 16 for full text of EC R-phrases.

### 4. FIRST AID MEASURES

Poison Information Centres (131126) in each State Capital City can provide additional assistance for scheduled poisons.

**Inhalation:** Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin Contact:** Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

**Eye Contact:** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**Ingestion:** If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Advice to Physician:** Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Call a doctor or poison control center for guidance.

### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

**Specific Hazards:** Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

**Extinguishing Media:** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

**Unsuitable Extinguishing Media:** Do not use water in a jet.

**Protective Equipment for Firefighters:** Wear full protective clothing and self-contained breathing apparatus.

**Additional Advice:** Keep adjacent containers cool by spraying with water.

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**Hazchem Code:** 3Y - For fire fighting, use foam (alcohol resistant foam may be required). Risk of explosion. Breathing apparatus, firefighting gear and chemically impervious protective gloves should be worn. Prevent spillage from entering drains or watercourses.

### 6. ACCIDENTAL RELEASE MEASURES:

Observe all relevant local and international regulations.

**Protective Measures:** Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

**Clean Up Methods:** For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

**Additional Advice:** See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapor may form an explosive mixture with air.

### 7. HANDLING AND STORAGE

**General Precautions:** Avoid breathing vapors or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**Handling:** Avoid contact with skin, eyes, and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Handle and open container with care in a well-ventilated area. Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains.

**Storage:** Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Storage Temperature: Ambient.

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- Product Transfer:** Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve.
- Recommended Materials:** For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.
- Unsuitable Materials:** Avoid prolonged contact with natural, butyl or nitrile rubbers.
- Container Advice:** Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Occupational Exposure Limits:** In the absence of occupational exposure standards for this product, it is recommended that the following are adopted.

Material	Source	Type	ppm	mg/m3	Notation
RCP	HSPA	TWA (8 h)		350 mg/m3	
Mineral Spirits 150 – 200	OELs				
Ethylbenzene	ACGIH	TWA	100 ppm		
	ACGIH	STEL	125 ppm		
	AU OEL	TWA	100 ppm	434 mg/m3	
	AU OEL	STEL	125 ppm	543 mg/m3	

**Additional Information:** Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

#### Biological Exposure Index (BEI) – See reference for full details

Material	Determinant	Sampling time	BEI	Reference
Xylene, Mixed Isomers	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine	ACGIH (2003)

**Exposure Controls:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

**Personal Protective Equipment:** Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapors [boiling point  $>65$  °C (149 °F)] meeting EN141. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

**Hand Protection:** Longer term protection: Nitrile rubber gloves Incidental contact/Splash protection: PVC or neoprene rubber gloves Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

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**Eye Protection:** Chemical splash goggles (chemical monogoggles).

**Protective Clothing:** Chemical resistant gloves/gauntlets, boots, and apron. Skin protection not ordinarily required beyond standard issue work clothes.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colourless liquid
<b>Odour:</b>	Paraffinic
<b>pH:</b>	Not applicable
<b>Boiling Point:</b>	Typical 162 – 192°C / 324 – 378°F
<b>Melting/Freezing Point:</b>	Not applicable
<b>Flash Point:</b>	Typical 41 – 42°C / 106 – 108°F (Abel)
<b>Explosion/ Flammability Limits In Air:</b>	0.7 – 6.5% (V)
<b>Autoignition Temp:</b>	296°C / 565°F (ASTM E-659) 245°C / 473°F (DIN 51794)
<b>Vapour Pressure:</b>	Typical 370 Pa at 20°C / 68°F Typical 110Pa at 0°C / 32°F Typical 1,800 Pa at 50°C / 122°F
<b>Specific Gravity:</b>	Data not available
<b>Density:</b>	Typical 783 kg/m <sup>3</sup> at 15°C / 59°F (ASTM D-4052)
<b>Water Solubility:</b>	Insoluble
<b>Solubility in Other Solvents:</b>	Aromatics Miscible. Aliphatics Miscible.
<b>n-octanol/Water Partition Coefficient (log Pow):</b>	3.7 – 6.7
<b>Kinematic Viscosity:</b>	Typical 1.08 mm <sup>2</sup> /s at 25°C / 77°F
<b>Vapor Density (air=1):</b>	Data not available
<b>% Volatile by Volume:</b>	Not Available
<b>Electrical Conductivity:</b>	Typical 1 pS/m at 20°C / 68°F (ASTM D-4308)
<b>Coefficient of Expansion:</b>	Typical 0.0008/°C
<b>Dielectric Constant:</b>	Typical 2.1 at 20°C / 68°F
<b>Reaction with Water:</b>	Not applicable
<b>Saturated Vapour Concentration (in air):</b>	21 g/m <sup>3</sup> (estimated value(s))
<b>Volatile Organic Carbon Content:</b>	85% (EC/1999/13)

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<b>Evaporation Rate (nBuAc=1):</b>	0.16 (ASTM D 3539, nBuAc=1) 80 (DIN 53170, di-ethyl ether=1)
<b>Surface Tension:</b>	Typical 26.4 mN/m at 20°C / 68°F (ASTM D-971)
<b>Molecular Weight:</b>	140 g/mol

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of use.
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Materials to Avoid:</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products:</b>	None known. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
<b>Sensitivity to Static Discharge:</b>	Data not available.

### 11. TOXICOLOGICAL INFORMATION

<b>Basis for Assessment:</b>	Information given is based on product testing, and/or similar products, and/or components.
<b>Acute Oral Toxicity:</b>	Low toxicity: LD50 >2000 mg/kg , Rat Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
<b>Acute Dermal Toxicity:</b>	Low toxicity: LD50 >2000 mg/kg, Rat
<b>Acute Inhalation Toxicity:</b>	Low toxicity: LC50 greater than near-saturated vapor concentration. / 4 hours, Rat High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
<b>Skin Irritation:</b>	May cause moderate skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin_which can lead to dermatitis.
<b>Eye Irritation:</b>	Essentially non-irritating to eyes.
<b>Respiratory Irritation:</b>	Inhalation of vapors or mists may cause irritation to the_respiratory system.
<b>Sensitisation:</b>	Not a skin sensitiser.
<b>Repeated Dose Toxicity:</b>	Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. Central nervous system: repeated exposure affects the nervous system. Kidney: caused kidney effects in male rats which are not considered relevant to humans.
<b>Mutagenicity:</b>	Not expected to be mutagenic.
<b>Carcinogenicity:</b>	Limited evidence of carcinogenic effect. (Ethylbenzene).
<b>Reproductive and Developmental Toxicity:</b>	Causes foetotoxicity in animals at doses which are maternally toxic. Not expected to impair fertility.

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### 12. ECOLOGICAL INFORMATION

#### Acute Toxicity:

<b>Fish:</b>	Expected to be harmful: 10 < LC/EC/IC50 <= 100 mg/l
<b>Aquatic Invertebrates:</b>	Expected to be harmful: 10 < LC/EC/IC50 <= 100 mg/l
<b>Algae:</b>	Expected to be toxic: < LC/EC/IC50 <= 10 mg/l
<b>Microorganisms:</b>	Expected to be harmful: 10 < LC/EC/IC50 <= 100 mg/l
<b>Mobility:</b>	Floats on water.
<b>Persistence/ Degradability:</b>	Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
<b>Bioaccumulation:</b>	Contains components with the potential to bioaccumulate.
<b>Other Adverse Effects:</b>	In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

### 13. DISPOSAL CONSIDERATIONS

<b>Material Disposal:</b>	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.
<b>Container Disposal:</b>	Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.
<b>Local Legislation:</b>	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

### 14. TRANSPORT INFORMATION

#### ADG:

UN number	1300
Proper shipping name	TURPENTINE SUBSTITUTE
Class	3
Packing group	III
Hazchem Code	3Y

#### IMDG:

Identification number	UN 1300
Proper shipping name	TURPENTINE SUBSTITUTE
Class / Division	3
Packing group	III
Marine pollutant	Yes

#### IATA (Country variations may apply)

UN Number	1300
Proper shipping name	TURPENTINE SUBSTITUTE

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Class / Division 3  
Packing group III

### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**SUSDP Schedule:** 5

**Chemical Inventory Status:**

DSL Listed  
INV (CN) Listed  
TSCA Listed  
EINECS Listed 265-185-4  
KECI (KR) Listed KE-25620  
Other Information 94/69/EC (21st ATP). The benzene content of this product is less than 0.1%. Nota P applies.  
Classification and labeling as carcinogen (R45) is not required.

### 16. OTHER INFORMATION

**R-phrases(s):**

R10 Flammable.  
R20 Harmful by inhalation.  
R20/21 Harmful by inhalation and in contact with skin.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R37 Irritating to respiratory system.  
R38 Irritating to skin.  
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

**Contact Person/Point:** Technical Information: (03) 9338 6655

**Date of Preparation or last revision of MSDS:** MSDS reviewed: 18 June 2011

*This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

END OF MSDS