ShellSol D60

Version 2.1

Effective Date 04.04.2008

# **Material Safety Data Sheet**

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Material Name : ShellSol D60
Recommended Uses : Industrial Solvent.

Product Code : Q3522

**Supplier** 

Auschem (NSW) Pty Ltd

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**NSW** Australia

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**Local Contact** 

**Telephone** : + 612 9756 5559 **Fax** : + 612 9756 5558

**Emergency Telephone** 

Number

: 1800 127 406 (24 hours) / (International) +64 3 353 0199

Other Information : ShellSol is a trademark owned by Shell Trademark

Management B.V. and Shell Brands Inc. and used by affiliates

of Royal Dutch Shell plc.

### 2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Classified as hazardous according to the criteria of NOHSC, and not classified as Dangerous Goods according to the Australian Dangerous Goods Code.

Symbol(s) : Xn Harmful.

**R-phrase(s)** : R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

S-phrase(s) : S23 Do not breathe vapour.

S24 Avoid contact with skin.

S62 If swallowed, do not induce vomiting: seek medical advice

immediately and show this container or label.

Health Hazards : May cause moderate irritation to skin. Repeated exposure may

cause skin dryness or cracking. Harmful: may cause lung

damage if swallowed.

Signs and Symptoms : If material enters lungs, signs and symptoms may include

coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Skin irritation signs and symptoms may include a burning sensation,

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redness, swelling, and/or blisters.

Combustible liquid. In use, may form flammable/explosive **Safety Hazards** 

vapour-air mixture. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.

**SUSDP Schedule** 

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Material Formal Name** Naphtha (petroleum), hydrotreated heavy

CAS No. 64742-48-9 INDEX No. 649-327-00-6 EINECS No. 265-150-3

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

#### 4. FIRST AID MEASURES

**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.

If swallowed, do not induce vomiting: transport to nearest Ingestion

medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever

greater than 101° F (37° C), shortness of breath, chest

congestion or continued coughing or wheezing.

Advice to Physician Potential for chemical pneumonitis. Consider: gastric lavage

with protected airway, administration of activated charcoal. 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.

Foam, water spray or fog. Dry chemical powder, carbon **Extinguishing Media** 

> dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

**Unsuitable Extinguishing** 

Do not use water in a jet.

**Protective Equipment for** 

Wear full protective clothing and self-contained breathing

**Firefighters** 

apparatus. Keep adjacent containers cool by spraying with water.

**Additional Advice Hazchem Code** 

Not applicable.

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#### 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. Monitor area with combustible gas indicator.

Clean Up Methods : For small liquid spills (< 1 drum), transfer by mechanical means

to a labelled, 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.

# 7. HANDLING AND STORAGE

**General Precautions** : Avoid breathing vapours or contact with material. Only use in

well ventilated areas. Wash thoroughly after handling. For 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** : Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks. Avoid contact with skin, eyes, and clothing. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<= 1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid

splash filling. Do NOT use compressed air for filling,

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**Unsuitable Materials** 

**Container Advice** 

discharging, or handling operations.

Storage : Must be stored in a diked (bunded) area. Bulk storage tanks

should be diked (bunded). Storage Temperature: Ambient.

**Product Transfer** : 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. Avoid prolonged contact with natural, butyl or nitrile rubbers.

: Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

Additional Information : Ensure that all local regulations regarding handling and storage

facilities are followed.

## 8. EXPOSURE CONTROLS/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	Туре	ppm	mg/m3	Notation
RCP	HSPA	TWA (8 h)		1,200 mg/m3	
Dearom.	OELs			_	
Mineral					
spirits 175 -					
220					

Additional Information : Wash hands before eating, drinking, smoking and using the

toilet.

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

No biological limit allocated.

**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 Respiratory Protection Personal protective equipment (PPE) should meet

recommended national standards. Check with PPE suppliers. 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

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vapours [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.

Eye Protection : Chemical splash goggles (chemical monogoggles).Protective Clothing : Use protective clothing which is chemical resistant to this

material. Safety shoes and boots should also be chemical

resistant.

Monitoring Methods : Monitoring of the concentration of substances in the breathing

zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended air monitoring methods are given below or contact supplier.

Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of

Analytical Methods,

http://www.cdc.gov/niosh/nmam/nmammenu.html Occupational Safety and Health Administration (OSHA), USA: Sampling and

Analytical Methods http://www.osha-

slc.gov/dts/sltc/methods/toc.html Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous

Substances http://www.hsl.gov.uk/search.htm

**Environmental Exposure** 

**Controls** 

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colourless Liquid.
Odour : Hydrocarbon
pH : Not applicable.

Boiling point : Typical 179 - 213.9 °C / 354 - 417.0 °F

Pour point :  $< -25 \,^{\circ}\text{C} / -13 \,^{\circ}\text{F}$ 

Flash point : Typical 61 - 66 °C / 142 - 151 °F(ASTM D-93 / PMCC)

Explosion / Flammability : 0.7 - 6 %(V)

limits in air

Auto-ignition temperature : 235 - 315 °C / 455 - 599 °F(ASTM E-659)

Vapour pressure : Typical 30 - 93 Pa at 0 °C / 32 °F

Specific gravity : 0.78 - 0.81

Density : Typical 0.780 g/cm3 at 15 °C / 59 °F(ASTM D-4052)

Water solubility : Insoluble.

Solubility in other solvents : Hydrocarbon solvent(s) Soluble.

Vapour density (air=1) : Data not available. Volatile organic carbon : 85 % (EC/1999/13)

content

Evaporation rate (nBuAc=1) : 0.04 (ASTM D 3539, nBuAc=1)

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#### 10. STABILITY AND REACTIVITY

**Stability** : Stable under normal conditions of use.

**Conditions to Avoid** : Avoid heat, sparks, open flames and other ignition sources.

Materials to Avoid : Strong oxidising agents.

**Hazardous** : Thermal decomposition is highly dependent on conditions. A **Decomposition Products** : 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.

## 11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product testing, and/or similar

products, and/or components.

Acute Oral Toxicity : Expected to be of low toxicity: LD50 >2000 mg/kg , Rat

Aspiration into the lungs when swallowed or vomited may

cause chemical pneumonitis which can be fatal.

Acute Dermal Toxicity : Expected to be of low toxicity: LD50 >2000 mg/kg , Rat

**Acute Inhalation Toxicity**: Low toxicity: LC50 greater than near-saturated vapour

concentration. / 4 hours, Rat

**Skin Irritation** : May cause moderate skin irritation (but insufficient to classify).

Prolonged/repeated contact may cause defatting of the skin

which can lead to dermatitis.

Essentially non-irritating to eyes.

Eye Irritation: Essentially non-irritating to eyes.Respiratory Irritation: Not expected to be a respiratory irritant.Sensitisation: Not expected to be a skin sensitiser.

Repeated Dose Toxicity : Kidney: caused kidney effects in male rats which are not

considered relevant to humans

**Mutagenicity** : No evidence of mutagenic activity.

Carcinogenicity : Repeated exposure may cause skin tumour promotion in

experimental animals.

An increased tumour incidence has been observed in

experimental animals; the significance of this finding to man is

unknown. (Stoddard solvent IIC) Not classified as a carcinogen.

Reproductive and Developmental Toxicity

: Not expected to be a developmental toxicant.

Not expected to impair fertility.

### 12. ECOLOGICAL INFORMATION

**Acute Toxicity** 

Fish : Low toxicity: LC/EC/IC50 > 1000 mg/l
Aquatic Invertebrates : Low toxicity: LC/EC/IC50 > 1000 mg/l
Algae : Low toxicity: LC/EC/IC50 > 1000 mg/l

**Mobility** : Floats on water.

Adsorbs to soil and has low mobility.

**Persistence/degradability**: Expected to be readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

**Bioaccumulation** : Has the potential to bioaccumulate.

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### 13. DISPOSAL CONSIDERATIONS

Material Disposal : 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.

Container Disposal : Drain container thoroughly. After draining, vent in a safe place

away from sparks and fire. Residues may cause an explosion hazard if heated above the flash point. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal

reclaimer.

**Local Legislation** : 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**

This material is not classified as dangerous according to the Australian Dangerous Goods Code.

## **IMDG**

This material is not classified as dangerous under IMDG regulations.

### IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

## 15. REGULATORY INFORMATION

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

SUSDP Schedule: 5DSL: Listed.INV (CN): Listed.TSCA: Listed.

EINECS : Listed. 265-150-3 KECI (KR) : Listed. KE-25622

PICCS (PH) : Listed.

Other Information : 94/69/EC (21st ATP). The benzene content of this product is

less than 0.1%. Nota P applies. Classification and labelling as

carcinogen (R45) is not required.

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## 16. OTHER INFORMATION

R-phrase(s)

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

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MSDS Effective Date : 04.04.2008

**MSDS Revisions** : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

MSDS Regulation

Uses and Restrictions : Industrial Solvent.

MSDS Distribution : The information in this document should be made available to

all who may handle the product

**Disclaimer** : This information is based on our current knowledge and is

intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property

of the product.