

Infosafe No™ HXOQD	Issue Date : June 2007	ISSUED by RITTCO	CS: 1.4.22
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Product Name : **SLICK 50 FUEL SYSTEM TREATMENT**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	SLICK 50 FUEL SYSTEM TREATMENT		
<b>Product Code</b>	40206016		
<b>Company Name</b>	RITTCO DISTRIBUTING		
<b>Address</b>	PO Box 23 Concord NSW 2137 Australia		
<b>Emergency Tel.</b>	13 11 16		
<b>Recommended Use</b>	FUEL ADDITIVE		
<b>Other Names</b>	<u>Name</u>		<u>Product Code</u>
	SLICK 50 FUEL SYSTEM TREATMENT		

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
<b>Risk Phrase(s)</b>	R10 Flammable. R38 Irritating to skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness
<b>Safety Phrase(s)</b>	S2 Keep out of reach of children. S24 Avoid contact with skin. S29 Do not empty into drains. S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition	Ingredient	Formula
	DISTILLATES, PETROLEUM, SWEETENED MIDDLE	Not Available
	NAPHTHA (PETROLEUM) HYDRODESULPHURISED, HEAVY	Not Available
	POLYETHER AMINE	Not Available
	HYDROCARBYL AMINE	Not Available
	1,2,4-TRIMETHYL BENZENE	C9-H12
	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	Not Available
	SUBSTITUTED ALIPHATIC AMINE	Not Available
	1,3,5-TRIMETHYLBENZENE	C9-H12
	NAPHTHALENE	C10-H8

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	DISTILLATES, PETROLEUM, SWEETENED MIDDLE	64741-86-2	30-50 %
	NAPHTHA (PETROLEUM) HYDRODESULPHURISE D, HEAVY	64742-82-1	20-40 %
	POLYETHER AMINE	Not Available	20-40 %
	HYDROCARBYL AMINE	Not Available	5-10 %
	Solvent naphtha (petroleum), heavy aromatic	64742-94-5	1-5 %
	1,2,4-Trimethyl Benzene	95-63-6	1-5 %

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SUBSTITUTED	Not	1-5 %
ALIPHATIC AMINE	Available	
1,3,5-TRIMETHYLBE	108-67-8	0.1-1 %
NZENE		
NAPHTHALENE	91-20-3	0.1-1 %

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
<b>Ingestion</b>	DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.
<b>Skin</b>	Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
<b>Eye</b>	Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.
<b>Advice to Doctor</b>	Treat symptomatically

#### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.
<b>Specific Hazards</b>	Flammable - explosive vapour. Evacuate area & contact emergency services. Toxic gases (carbon oxides, hydrocarbons) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Hazchem Code</b>	3[Y]

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal</b>	If spilt (bulk), contact emergency services. Wear splash-proof goggles, PVA/viton gloves, a Type A (Organic vapour) respirator or Air-line respirator, coveralls and rubber boots. Ventilate and clear area of all unprotected personnel. Eliminate heat and ignition sources, absorb spill with sand or similar and place in sealable containers for disposal. Prevent spill entering drains or waterways.
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#### 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
<b>Conditions for Safe Storage</b>	Store in cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, heat and ignition sources, oxidising agents (eg. peroxides), acids (eg. nitric acid) and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate fire protection and ventilation systems. Store between 0°C to 50°C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	1,2,4-TRIMETHYL BENZENE (95-63-6) ES-STEL : 35 ppm (170 mg/m <sup>3</sup> ) ES-TWA: 25 ppm as Trimethyl benzene
	1,3,5-TRIMETHYLBENZENE (108-67-8) ES-STEL : 35 ppm (170 mg/m <sup>3</sup> ) ES-TWA: 25 ppm (123 mg/m <sup>3</sup> ).
	NAPHTHALENE (91-20-3) ES-STEL : 15 ppm (79 mg/m <sup>3</sup> ) ES-TWA: 10 ppm (52 mg/m <sup>3</sup> ) WES-TWA: 10 ppm (52 mg/m <sup>3</sup> )

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<b>Biological Limit Values</b>	No biological limit allocated.
<b>Engineering Controls</b>	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.
<b>Personal Protective Equipment</b>	Wear splash-proof goggles, viton (R) or PVA gloves and coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear an Air-line respirator.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Brown liquid
<b>Odour</b>	Characteristic petroleum odour
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity</b>	Not available
<b>pH Value</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Viscosity</b>	1.2 mm <sup>2</sup> /s @ 40°C
<b>Volatile Component</b>	Not available
<b>Flash Point</b>	50°C
<b>Flammability</b>	Flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids.
<b>Auto-Ignition Temperature</b>	Not available
<b>Explosion Limit - Upper</b>	Not available
<b>Explosion Limit - Lower</b>	Not available

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## 10. STABILITY AND REACTIVITY

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<b>Incompatible Materials</b>	Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), heat and ignition sources.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	<p>Toxicity Data:</p> <p>1,2,4-TRIMETHYL BENZENE (95-63-6) LC50 (Inhalation): 18 g/m<sup>3</sup>/4hrs (rat) LD50 (Ingestion): 5 g/kg (rat)</p> <p>1,3,5-TRIMETHYLBENZENE (108-67-8) LC50 (Inhalation): 24 g/m<sup>3</sup>/4hrs (rat)</p> <p>NAPHTHALENE (91-20-3) Carcinogenicity: IARC Group 2B LC50 (Inhalation): &gt; 340 mg/m<sup>3</sup>/1hr (rat)</p>
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LD50 (Ingestion): 490 mg/kg (rat)  
LD50 (Skin): > 2500 mg/kg (rat)  
This product has the potential to cause acute and chronic adverse health effects with over exposure. Avoid eye or skin contact and vapour/mist inhalation. Chronic exposure may result in damage to the central nervous system.

**Inhalation** Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing, and headache. Over exposure may result in nausea, dizziness and drowsiness.

**Ingestion** Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Aspiration may result in chemical pneumonitis and pulmonary oedema. The manufacturer reports that the Acute Oral LD50 is > 2000 mg/kg.

**Skin** Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.

**Eye** Exposure may result in lacrimation, irritation, pain, redness, conjunctivitis and possible corneal burns with prolonged contact.

## 12. ECOLOGICAL INFORMATION

**Ecological Information** Environment: Aliphatic hydrocarbons behave differently in the environment depending on their size. WATER: Light aliphatics volatilise rapidly from water (half life - few hours). Bioconcentration should not be significant. SOIL: Light aliphatics biodegrade quickly in soil and water, heavy aliphatics biodegrade very slowly. ATMOSPHERE: Vapour-phase aliphatics will degrade by reaction with hydroxyl radicals.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Wearing the protective equipment outlined, ensure all ignition sources are extinguished. For small quantities, absorb on paper, sand or similar and evaporate under a fume cupboard or open area. For large volumes, atomise into incinerator (mixing with more flammable solvent if required) or recycle by gravimetric separation, distilling & reusing. Contact the manufacturer for additional information if required.

**Local Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

**Transport Information** CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name: PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.  
UN No.: 1268  
DG Class: 3  
Subsidiary Risk(s): None Allocated  
Pkg Group: III  
Hazchem Code: 3[Y]  
EPG: 3A1

IATA:  
Shipping Name: PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.  
UN No.: 1268  
DG Class: 3  
Subsidiary Risk(s): None Allocated  
Pkg Group: III

IMDG:  
Shipping Name: PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.  
UN No.: 1268  
DG Class: 3  
Subsidiary Risk(s): None Allocated  
Pkg Group: III

**U.N. Number** 1268

**Proper Shipping Name** PETROLEUM DISTILLATES, N.O.S.

**DG Class** 3

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**Sub.Risk** None Allocated**Hazchem Code** 3[Y]**Packaging Method** 3.8.3**Packing Group** III**EPG Number** 3A1**IERG Number** 14

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**15. REGULATORY INFORMATION****Regulatory Information** Poison Schedule: Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).**Poisons Schedule** S5**Hazard Category** Harmful, Irritant, Dangerous for the environment**AICS (Australia)** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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**16. OTHER INFORMATION****Other Information** RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**ABBREVIATIONS:**mg/m<sup>3</sup> - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.



# Material Safety Data Sheet

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#### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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