

# Material Safety Data Sheet

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Infosafe No™ IA1T7 Issue Date : January 2011 ISSUED by MOTORONE

Product Name : DEFENSE PAK WATER BASED FABRIC PROTECTION

Classified as hazardous according to criteria of NOHSC.

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** DEFENSE PAK WATER BASED FABRIC PROTECTION

**Company Name** MotorOne Group Pty Ltd

**Address** 275 Canterbury Road Canterbury  
VIC 3126 Australia

**Telephone/Fax Number** Tel: (03) 8809 2700  
Fax: (03) 9888 6944

**Recommended Use** Fabric protector.

**Other Names** Name Product Code  
WAXGUARD 2000F

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous according to criteria of NOHSC.  
HAZARDOUS SUBSTANCE.  
DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.

**Risk Phrase(s)** Classified as hazardous according to criteria of NOHSC.  
R10 Flammable.  
R38 Irritating to skin.  
R45(2) May cause cancer.  
R46(2) May cause heritable genetic damage.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrase(s)** R65 Harmful: may cause lung damage if swallowed.  
S16 Keep away from sources of ignition - No smoking.  
S23(2) Do not breathe vapour.  
S24/25 Avoid contact with skin and eyes.  
S37/39 Wear suitable gloves and eye/face protection.  
S38 If insufficient ventilation, wear suitable respiratory equipment.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.  
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.  
S9 Keep container in a well ventilated place.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Aliphatic hydrocarbon	64742-89-8	>60-100 %
	Toluene	108-88-3	0-<1 %
	Fluoropolymer	Proprietary	-

## 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove the affected person from contaminated area. Apply artificial respiration if not breathing. If symptoms persist seek medical attention.

**Ingestion** Do NOT induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

**Skin** Remove contaminated clothing. Wash affected area thoroughly with soap and water Wash contaminated clothing before re-use or discard. Seek medical attention.

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

**First Aid Facilities** Eye wash and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

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**Other Information** For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use carbon dioxide, dry chemical, foam, water spray or water fog.

**Hazards from Combustion** Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Products Specific Methods** Use water spray to cool fire exposed containers.

**Specific Hazards** Flammable liquid. Explosive air-vapour mixture may form. Explosive when mixed with oxidizing substances.

**Hazchem Code** •3Y

**Precautions in connection with Fire** Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Wear appropriate personal protective equipment and clothing to minimise 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 the 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 authorities and EPA in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Use in designated areas with adequate ventilation. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. Prevent the creation of vapour or mist in the work atmosphere. Keep containers closed when not in use.

**Conditions for Safe Storage** Store in a cool, dry well-ventilated area away from incompatible materials, such as strong oxidizing agents, foodstuffs, and clothing. Keep containers closed when not in use and 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. 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** No value is assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC) Australia, however the available exposure limits on the ingredients as provided by NOHSC are as follows:

Substance	TWA		STEL		Notices
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Toluene	50	191	150	574	Sk
Paraffins	-	5	-	-	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

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<b>Biological Limit Values</b>	Biological Exposure Indice BEI from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows: Determinant Sampling Time Biological Exposure Indice (BEI) TOLUENE [108-88-3] o-Cresol in urine End of shift 0.3 mg/g creatinine Toluene in urine End of shift 0.03 mg/L Toluene in blood Prior to last shift of work week 0.02 mg/L
<b>Engineering Controls</b>	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:2004: Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand 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.
<b>Eye Protection</b>	Safety glasses with side shields, goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Impervious gloves recommended such as laminated film or nitrile gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
<b>Body Protection</b>	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear liquid
<b>Odour</b>	Hydrocarbon odour
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	180-205°C
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity</b>	0.765-0.775 at 15°C
<b>pH Value</b>	Not available
<b>Vapour Pressure</b>	0.07 kPa at 15°C
<b>Vapour Density (Air=1)</b>	Not available
<b>Flash Point</b>	> 50°C
<b>Flammability</b>	Flammable liquid
<b>Auto-Ignition Temperature</b>	354°C
<b>Flammable Limits - Lower</b>	0.8%
<b>Flammable Limits - Upper</b>	6.1%

## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	Heat and other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidising agents
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No toxicity data available for this material. The available acute toxicity data for the ingredients as published by RTECS (Registry of Toxic Effects of Chemical Substances) are as follows: Toluene: LD50 (Oral, Rat): 636 mg/kg LC50 (Inhalation, Rat): 49 gm/m3/4H
<b>Inhalation</b>	May be irritating to the respiratory system. Inhalation of high concentrations of vapour may result in dizziness, drowsiness, headache, CNS depression, nausea, vomiting and narcosis.
<b>Ingestion</b>	Harmful-may cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
<b>Skin</b>	Irritating to skin. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
<b>Eye</b>	May be irritating to eyes. The symptoms may include redness, itching and tearing.
<b>Chronic Effects</b>	Prolonged or repeated skin contact may cause defatting leading to dermatitis.
<b>Mutagenicity</b>	This material is classified as a Category 2 Mutagen according to National Occupational Health And Safety Commission (NOHSC). That is, there is sufficient evidence, generally on the basis of appropriate animal studies and other relevant information, to provide a strong presumption that human exposure can result in the development of heritable genetic damage. Category 2 Mutagens are substances that should be regarded as if they are mutagenic to humans.
<b>Carcinogenicity</b>	This substance is classified as a Category 2 Carcinogen according to National Occupational Health and Safety Commission (NOHSC). That is, there is sufficient evidence, on the basis of appropriate long term animal studies or other relevant information, to provide a strong presumption that human exposure to this substance may result in the development of cancer. Category 2 Carcinogens are substances that should be regarded as if they are carcinogenic to humans.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Persistence / Degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Environ. Protection</b>	Do not discharge this material into waterways, drains and sewers.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	Disposal of spilled or waste material including emptied containers must be carried out in accordance with the relevant local and national government regulations. Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld empty containers. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.
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## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Class 3 - Flammable Liquids are incompatible in a placard load with any of the following: - Class 1, Explosives - Division 2.1, Flammable Gases, (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.) - Division 2.3, Toxic Gases - Division 4.2 Spontaneously Combustible Substances - Division 5.1 Oxidising Agents and Division 5.2, Organic Peroxides - Class 6 Toxic or Infectious Substances (where the flammable liquid is nitromethane) - Class 7 Radioactive Substances.
<b>U.N. Number</b>	1993
<b>Proper Shipping Name</b>	FLAMMABLE LIQUID, N.O.S. - (Contains:Aliphatic Hydrocarbons)
<b>DG Class</b>	3
<b>Hazchem Code</b>	•3Y
<b>Packing Group</b>	III
<b>EPG Number</b>	3A1
<b>IERG Number</b>	14
<b>IMDG Marine Pollutant (MP)</b>	This product is classified as a MARINE POLLUTANT according to the International Maritime Dangerous Goods Code (IMDG).

## 15. REGULATORY INFORMATION

<b>Regulatory Information</b>	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as a Scheduled Poisons according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
<b>Poisons Schedule</b>	S5
<b>Hazard Category</b>	Toxic, Irritant, Dangerous for the environment

## 16. OTHER INFORMATION

<b>Date of preparation or last revision of MSDS</b>	MSDS Review: January 2011 Supersedes: July 2008
<b>Contact Person/Point</b>	DISCLAIMER: The company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside the Company's control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries. ...End Of MSDS...

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