

# SAFETY DATA SHEET

## 1. IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

**Product Name:** **MARINE DIESEL TREATMENT**

**Product Codes:** 1 x 1L 50048, 1 x 5L 50072, 1 x Case 12 x 1L 80084, 1 x 20L 82045, 1 X 60L 82075, 1 x 208L 82092

**UN Number:** Not Applicable

### 1.2 RECOMMENDED USE & RESTRICTION ON USE

Concentrated Fuel Additive for all types of engines using Distillate Fuels. Add to fuel or bulk tank at dosage rate of 1ml of Additive per 500mL of distillate, **(1:500)**, to vehicle or bulk tank, preferably before topping up.

### 1.3 COMPANY DETAILS

Pro-Ma Systems (AUST) Pty Ltd  
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### 1.4 EMERGENCY TELEPHONE NUMBER

Poisons Information 131126

## 2. HAZARDS CLASSIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

HAZARDOUS CHEMICAL: according to classification by SafeWork Australia

NON-DANGEROUS GOODS: according to the Australian Code for Transport of Dangerous Goods

Flammable Liquids	(Category 3)
Aspiration Hazard	(Category 1)
Specific target organ toxicity (repeated exposure)	(Category 1)
Carcinogenicity	(Category 1A)
Germ cell mutagenicity	(Category 1B)

### Hazards not otherwise classified (HNOC)

Can cause mild skin irritation

### 2.2 LABEL ELEMENTS

**Signal Word:** DANGER

**Pictogram:**



### Hazard Statement(s):

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H350	May cause cancer
H340	May cause genetic defects
H370	Causes damage to organs through prolonged or repeated exposure

**Precautionary Statement(s):**

P102	Keep out of reach of children
P103	Read label before use
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof equipment
P242	Use non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fumes/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/eye protection/face protection

**Response:**

P101	If medical advice is needed, have product container or label at hand.
P301 + P310 + P331	<b>If swallowed:</b> Immediately call a POISON CENTRE or doctor/physician. <b>DO NOT INDUCE VOMITING</b>
P303 + P361 + P353	<b>If on skin or hair:</b> Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	<b>If inhaled:</b> Remove victim to fresh air and keep in a rest position comfortable for breathing
P370 + P378	<b>In case of fire:</b> Use Foam, CO <sub>2</sub> , dry chemical or foam fire fighting apparatus for extinction. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool.

**Storage:**

P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up

**Disposal:**

P501	Dispose of contents/container as hazardous waste/EPA regulations
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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances/Mixtures**

Ingredient	CAS No	Content (%)	Classification
Mineral Spirits	8052-41-3	Proprietary	Carc. Cat. 2
Heavy Aromatic Naptha	64742-95-6	Proprietary	
Naptha (Petroleum), heavy aromatic	64742-94-5	Proprietary	
1,2,4, Trimethylbenzene	95-63-6	Proprietary	
Distillates, petroleum, solvent refined heavy paraffinic	64741-88-4	Proprietary	
Naphthalene	91-20-3	Proprietary	

\*If Chemical Name/CAS No. or Content % is listed as "proprietary" the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*

**4. FIRST AID MEASURES****4.1 Description of First Aid Measures:**

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poison Control Centre, a doctor or for at least 15 minutes
<b>Inhalation</b>	If inhaled, removed from contaminated area. If breathing difficulties, dizziness, or light-headedness occur when working in areas with high vapour concentrations, victim should seek air free of vapours. If breathing stops, begin artificial respiration, and seek medical attention.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with soap and large quantities of water. Seek medical attention if irritation from contact persists.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Contact a Poison Control Centre or a doctor (at once).

**4.2 Most Important Symptoms and Effects, both Acute and Delayed:**

Causes irritation to the eyes and skin. Prolonged exposure may contribute to respiratory tract irritation, or central nervous system depression in high concentration. Prolonged breathing of vapours may cause nausea, headache, weakness and/or dizziness. May cause nausea, vomiting and/or diarrhoea if ingested.

**4.3 Immediate Medical Attention:**

Advice to doctor; treat as Petroleum Distillate

**5. FIREFIGHTING MEASURES****5.1 Extinguishing Media:**

Use Foam, CO<sub>2</sub>, or dry chemical fire fighting apparatus.

**5.2 Special Hazards Arising from Substance/Mixture:**

Flammable liquid and vapor. Vapours are heavier than air and may accumulate in low areas or areas inadequately ventilated. Vapours may also travel along the ground to be ignited at a location distant from handling site; flashback of flame to handling site may occur. Never use welding or cutting torch on or near a drum (even if empty) because product (even just residue) can ignite explosively.

**5.3 Advice for Fire Fighters:**

Evacuate area and contact emergency services. Toxic fumes of Carbon Monoxide may be involved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including self-contained breathing apparatus pressure-demand (MSHA/NIOSH) when combating fire

**5.4 Hazchem Code: 3 [Y]****6. ACCIDENTAL RELEASE MEASURES****6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Remove all sources of ignition. Contact emergency services where appropriate.

**6.2 Environmental Precautions:**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

**6.3 Methods and Materials for Containment and Clean Up:**

Contain spillage, then cover/absorb with non-combustible absorbent material. Use clean non-sparking tools to collect absorbed material and place in containers for reuse, treatment and/or disposal

**6.4 Other Information:**

See sections 8 and 13 for exposure controls and disposal.

**7. HANDLING AND STORAGE****7.1 Precautions for Safe Handling:**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin or clothing contact and/or inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Use only outdoors or in well-ventilated area. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharge.

**7.2 Conditions for Safe Storage, including Any Incompatibilities:**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from ignition sources and incompatible materials (strong oxidizing agents, strong acids, strong bases and amines). Store locked up.

**7.3 Other Information:**

Earth Bulk Containers to prevent static electricity discharge.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters: Exposure Standards

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Spirits 175-220	TWA: 100ppm	TWA: 500ppm TWA: 2900mg/m <sup>3</sup> (vacated) TWA: 100ppm (vacated) TWA: 525 mg/m <sup>3</sup>	IDLH: 20000 mg/m <sup>3</sup> Ceiling: 1800 mg/m <sup>3</sup> 15min TWA: 350mg/m <sup>3</sup>
1,2,4 Trimethylbenzene	-	-	TWA: 25ppm TWA: 125mg/m <sup>3</sup>
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20ppm	TWA: 50ppm TWA: 240mg/m <sup>3</sup> (vacated) TWA: 25ppm (vacated) S*	IDLH: 700ppm TWA: 5ppm TWA: 24mg/m <sup>3</sup>
Naphthalene	TWA: 10ppm S*	TWA: 10ppm TWA: 50mg/m <sup>3</sup> (vacated) TWA: 10ppm (vacated) TWA: 50mg/m <sup>3</sup> (vacated) STEL: 15ppm (vacated) STEL: 75mg/m <sup>3</sup>	IDLH: 250ppm TWA: 10ppm TWA: 50mg/m <sup>3</sup> STEL: 15ppm STEL: 75mg/m <sup>3</sup>

### Biological Limits

Exposure limits not known

### 8.2 Exposure Controls:

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

#### PPE

- Eye/Face** Wear chemical safety goggles or face shield to safeguard against potential eye contact.
- Hands/Skin** Wear suitable protective clothing. The use of impervious gloves, such as nitrile, is advised to prevent skin irritation in sensitive individuals or for prolonged or repeated contact. When using large quantities or where heavy contamination is likely, wear rubber boots and a
- Respiratory** The use of a respirator depends on vapour concentration above the time-weighted TLV. Use half-face filter respirator suitable for organic vapours. Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Take off all contaminated clothing and wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General Information:

<b>Physical State</b>	Liquid	
<b>Appearance</b>	Not determined	
<b>Odour</b>	Slight characteristic Odour	
<b>Color</b>	Not determined	
<b>Flammability</b>	Liquid – not applicable	
<b>Flammability Limits</b>	LEL: 1.0%, UEL: 6.0%	
<b>Flash Point</b>	>63°C (145.4°F) PMCC	
<b>Boiling Point</b>	159-204°C (318-400°F)	
<b>Melting Point</b>	Not available	
<b>Evaporation Rate</b>	70	(Ether = 1)
<b>pH</b>	Not relevant	
<b>Vapour Pressure</b>	2mm Hg	
<b>Vapour Density</b>	5.5	(Air = 1)

<b>Specific Gravity</b>	0.79 @ 84°F	(Water = 1)
<b>Solubility</b>	Soluble in petrol and similar organic solvents	
<b>Solubility (water)</b>	0.1	
<b>Partition Coefficient</b>	Not available	
<b>Auto Ignition Temp</b>	Not available	
<b>Decomposition Temp</b>	Not available	
<b>Kinematic Viscosity</b>	Not available	
<b>Dynamic Viscosity</b>	32.5 SUS	@ 38°C (100°F)
<b>Corrosiveness</b>	Not relevant	
<b>Oxidising Properties</b>	Not available	

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

Stable. Not reactive under normal conditions

### 10.2 Chemical Stability:

Stable under recommended storage conditions

### 10.3 Possibility of Hazardous Reactions:

None under normal processing

### 10.4 Conditions to Avoid:

Keep out of reach of children. Keep away from sources of ignition such as heat, sparks and/or open flames.

### 10.5 Incompatible Materials:

Incompatible with strong oxidising agents, strong acids or bases, and selected amines

### 10.6 Hazardous Decomposition Products:

Carbon monoxide and/or carbon dioxide (CO<sub>2</sub>)

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

<b>Skin</b>	Initial contact may result in irritation and redness.
<b>Eye</b>	Contact may result in mild irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.

### 11.2 Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Heavy Aromatic Naptha 64742-95-6	= 8400mg/kg (Rat)	> 2000mg/kg (Rabbit)	= 3400ppm (Rat) 4h
Naptha (petroleum), heavy aromatic 64742-94-5	> 5000mg/kg (Rat)	> 2 ml/kg (Rabbit)	> 590mg/m <sup>3</sup> (Rat) 4h
1,2,4, Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m <sup>3</sup> (Rat) 4h
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg (Rat)	= 99mg/kg (Rabbit)	= 450ppm (Rat) 4h
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4	> 5000mg/kg (Rat)	> 2000mg/kg (Rabbit)	= 2.18mg/L (Rat) 4h
Naphthalene 91-20-3	= 490mg/kg (Rat) = 1110mg/kg (Rat)	> 20g/kg (Rabbit) = 1120mg/kg (Rabbit)	> 340,g/m <sup>3</sup> (Rat) 1h

**11.3 Delayed and immediate effects and chronic effects from short and long-term exposure:****Germ Cell Mutagenicity** May cause genetic defects.**Carcinogenicity** May cause cancer

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl Ether 111-76-2	A3	Group 3		
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4	A2	Group 1		X
Naphthalene 91-20-3	A3	Group 2A	Reasonably anticipated	X

**Legend:****ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 – Suspected human carcinogen

A3 – Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 – Carcinogenic to humans

Group 2A – Probably carcinogenic to humans

Group 3 – IARC components are “not classifiable as human carcinogen”

**NTP (National Toxicology Program)**

Reasonably Anticipated – Reasonably Anticipated to be a human carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X – Present

**STOT – Repeated exposure** Causes damage to organs through prolonged or repeated exposure**Aspiration Hazard** May be fatal if swallowed and enters airways**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity:**

May be harmful to the aquatic environment with long lasting effects.

**12.2 Component Information:**

Chemical Name	Algae/Aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Heavy Aromatic Naptha 64742-94-5		9.22: 96h Oncorhynchus mykiss mg/L LC50		6.14:48h Daphnia magna mg/L EC50
Naptha (petroleum), heavy aromatic 64742-94-5	2.5: 72h Skeletonema costatum mg/L EC50	41:96 h Pimephales promelas mg/L LC50 1740:96 h Lepomis macrochirus mg/L LC50 static 45:96 h Pimphales promelas mg/L LC50 flow-through 19:96 h Pimephales promelas mg/L LC50 static 2.34:96 h Oncorhynchus mykiss mg/L LC50		0.95:48h Daphnia magna mg/L EC50
1,2,4 Trimethylbenzene 95-63-6		7.19 – 8.28:96 h Pimephales promelas mg/L LC50 flow-through		6.14:48 h Daphnia magna mg/L EC50
Ethylene Glycol Monobutyl Ether 111-76-2		1490:96h Lepomis macrochirus mg/L LC50 static 2950:96h Lepomis		1000:48 h Daphnia magna mg/L EC50 1698-1940:24 h

		macrochirus mg/L LC50		Daphnia magna mg/L EC50
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4		5000:96 h Oncorhynchus mykiss mg/L LC50		1000:48 h Daphnia magna mg/L EC50
Naphthalene 91-20-3	0.4:72 h Skeletonema costatum mg/L EC50	5.74-6.44:96 h Pimephales promelas mg/L LC50 flow-through 1.6:96 h Oncorhynchus mykiss mg/L LC50 static 1.99:96 h Pimephales promelas mf/L LC50 static 31.0265:96 h Lepomis macrochirus mg/L LC50 static		2.16:48 h Daphnia magna mg/L LC50 1.96:48 h Daphnia magna mg/L EC50 Flow-through 1.09-3.4:48 h Daphnia magna mg/L EC50 static

**12.3 Persistence and Degradability:**

Not determined

**12.4 Bioaccumulative Potential:**

Not determined

**12.5 Mobility:**

Chemical Name	Partition Coefficient
Naphtha (petroleum), heavy aromatic 64742-94-5	2.9-6.1
1,2,4 Trimethylbenzene 95-63-6	3.63
Ethylene Glycol Monobutyl Ether 111-76-2	0.81
Naphthalene 91-20-3	3.3

**12.6 Other Adverse Effects:**

Not determined

**13. DISPOSAL CONSIDERATIONS****13.1 General Information:**

Flush spilled material into suitable areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into a suitable absorbent. Dispose of product in accordance with local Council and EPA Regulations

**14. TRANSPORT INFORMATION**

	LAND TRANSPORT (ADGC7.4)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	N/A	N/A	1268
14.2 Proper Shipping Name	N/A	N/A	Petroleum Distillates N.O.S
14.3 Dangerous Goods Class	N/A	N/A	3
14.4 Packing Group	N/A	N/A	III

**14.5 Environmental Hazard:**

Marine Pollutant

**14.6 Special Precautions for User:**

Hazchem Code 3 [Y]

**15. REGULATORY INFORMATION****15.1 International Inventories:**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Mineral Spirits	Present	X		Present		Present	X	Present	X	X
Heavy Aromatic Naptha	Present	X		Present		Present	X	Present	X	X
Naptha (Petroleum), heavy aromatic	Present	X		Present		Present	X	Present	X	X
1,2,4, Trimethylbenzene	Present	X		Present		Present	X	Present	X	X
Distillates, petroleum, solvent refined heavy paraffinic	Present	X		Present		Present	X	Present	X	X
Napthalene	Present	X		Present		Present	X	Present	X	X

**Legend:****TSCA** – Unites States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** – Japan Existing and New Chemical Substances**IECSC** – China Inventory of Existing Chemical Substances**KECL** – Korean Existing and Evaluated Chemical Substances**PICCS** – Philippines Inventory of Chemicals and Chemical Substances**AICS** – Australian Inventory of Chemical Substances**16. OTHER INFORMATION****16.1 General Information:**Date of Preparation: 7<sup>th</sup> July 2020

Revision Number: 6

Changes in this Revision: Update to Non-DG for Road and Sea

**16.2 Report Status:**

This information relates to the specific material designated, and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability or completeness of such information for their own particular use. We do not accept any liability for any loss or damage that may occur from the use of this information.

**[ End of SDS ]**