SAFETY DATA SHEET

1. IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: ***DT5 PLUS DIESEL TREATMENT***
Product Codes: 1 x 1L 50042, 1 x 5L 50067, 1 x Case 12 x 1L 82003, 1 x Case 4 x 5L 82028, 1 x 20L 82044, 1 X 60L 82069, 1 x 208L 82085
UN Number: UN 1268 Petroleum Distillates N.O.S. (Not otherwise specified).

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 litre of distillate, **(1:1,000),** to vehicle or bulk tank, preferably before topping up.

1.3 COMPANY DETAILS

Pro-Ma Systems (AUST) Pty Ltd
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Helensvale, Queensland
Australia 4212
Telephone: +61 7 5573 8111
Fax: +61 7 5573 8122
Email: jwinnington@pro-masystems.com.au
Website: www.pro-masystems.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency +61 400 208 112

2. HAZARDS CLASSIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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/vapors/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	**If swallowed:** Immediately call a POISON CENTRE or doctor/physician. **DO NOT INDUCE VOMITING**
P303 + P361 + P353	**If on skin or hair:** Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	**If inhaled:** Remove victim to fresh air and keep in a rest position comfortable for breathing
P370 + P378	**In case of fire:** Use Foam, CO_2, 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

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:

Eye	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
Inhalation	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.
Skin	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.
Ingestion	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_2, or dry chemical fire fighting apparatus.

5.2 Special Hazards Arising From Substance/Mixture:
Flammable liquid and vapor. Vapors are heavier than air and may accumulate in low areas or areas inadequately ventilated. Vapors 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 8052-41-3	TWA:100ppm	TWA: 500ppm TWA: 2900mg/m3 (vacated) TWA: 100ppm (vacated) TWA: 525 mg/m3	IDLH:20000 mg/m3 Ceiling: 1800 mg/m3 15min TWA: 350mg/m3
1,2,4 Trimethylbenzene	-	-	TWA: 25ppm TWA: 125mg/m3
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20ppm	TWA: 50ppm TWA: 240mg/m3 (vacated) TWA:25ppm (vacated) S*	IDLH: 700ppm TWA: 5ppm TWA: 24mg/m3
Naphthalene	TWA: 10ppm S*	TWA: 10ppm TWA: 50mg/m3 (vacated) TWA: 10ppm (vacated) TWA: 50mg/m3 (vacated) STEL: 15ppm (vacated) STEL: 75mg/m3	IDLH: 250ppm TWA: 10ppm TWA: 50mg/m3 STEL: 15ppm STEL: 75mg/m3

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:

Physical State	Liquid
Appearance	Not determined
Odour	Slight characteristic Odour
Color	Not determined
Flammability	Liquid – not applicable
Flammability Limits	LEL:1.0%, UEL: 6.0%
Flash Point	49°C / 120°F
Boiling Point	159-204°C (318-400°F)
Melting Point	Not available
Evaporation Rate	70 (Ether = 1)

pH	Not relevant	
Vapour Pressure	2mm Hg	
Vapour Density	5.5	(Air = 1)
Specific Gravity	0.79 @ 84°F	(Water = 1)
Solubility	Soluble in petrol and similar organic solvents	
Solubility (water)	0.1	
Partition Coefficient	Not available	
Auto Ignition Temp	Not available	
Decomposition Temp	Not available	
Kinematic Viscosity	Not available	
Dynamic Viscosity	32.5 SUS	@ 38°C (100°F)
Corrosiveness	Not relevant	
Oxidising Properties	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 (CO2)

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Skin	Initial contact may result in irritation and redness.
Eye	Contact may result in mild irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	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/m3 (Rat) 4h
1,2,4, Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m3 (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	> 340,g/m3 (Rat) 1h

		(Rabbit)	

11.3 Delayed and immediate effects and chronic effects from short and long-term exposure:
Germ Cell Mutangenicity 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
Naphtha (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 macrochirus mg/L LC50		1000:48 h Daphnia magna mg/L EC50 1698-1940:24 h 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

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO THE ADG CODE, in quantities of 2L or more; (ADGC7.4)

	LAND TRANSPORT (ADGC7.4)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	**1268**	**1268**	**1268**

14.2 Proper Shipping Name	**Petroleum Distillates N.O.S**	**Petroleum Distillates N.O.S**	**Petroleum Distillates N.O.S**
14.3 Dangerous Goods Class	**3**	**3**	**3**
14.4 Packing Group	**III**	**III**	**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: 5th July 2016
Revision Number: 4
Changes in this Revision: Update to GHS SDS Standard

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**.**

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