

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

Product Identifier: MOREY'S DIESEL SMOKE KILLER & INJECTOR CLEANER

Relevant identified uses of the substance or mixture and uses advised against:

Intended use: Refer to Technical Data Sheet

Details of the supplier of the safety data sheet:

MOREY OIL SOUTH PACIFIC (AUST) PTY LTD
1/62 INGLESTON RAOD, WAKERLEY
QLD 4154, AUSTRALIA

Phone number: 7 321 66000
Website: www.moreyoil.com.au
Email: info@moreyoil.com.au

Emergency telephone number: 1 800 637173

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Label Elements:

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

Hazard:	H227	Combustible liquid.
Precautionary Statements:		
Prevention:	P210	Keep away from heat / sparks / open flames / hot surfaces. No smoking.
	P273	Avoid release to the environment.
	P280	Wear protective gloves / eye protection / face protection.
Response:	P332+313 P391	If skin irritation occurs: Get medical advice/attention. Collect spillage.
Storage:	P403+235	Store in a well ventilated place. Keep cool.
Disposal:	P501	Dispose of contents / container in accordance with local / national regulations.
HMIS	Health: 2 Fire: 2 Physical: 0 Hazards:	NFPA Health: 2 Fire: 2 Reactivity: 0
	PPE: C	Special Hazards:-

Hazard Statement:

Other Hazards:

This product contains no PBT/vPvB chemicals.

Not classified as hazardous according to the criteria of NOHSC Australia.

Not defined as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by road or rail.

SECTION 3	COMPOSITION / INFORMATION ON INGREDIENTS
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CAS Number	%	Name	EC No. 1272/2008 GHS Classification
0064742-54-7	<60	Petroleum distillates, hydrotreated heavy paraffin	Not Classified
0064742-47-8	<20	Distillates (petroleum), hydrotreated light	Asp. Tox. 1;H304
0064742-52-5	<20	Distillates (petroleum) hydrotreated heavy naphthenic	Not Classified
Proprietary or N/A	<20	Barium Complex	Not Classified
0027247-96-7	<10	2-Ethylhexyl nitrate	Not Classified
0000104-76-7	<5	2-Ethylhexanol	Skin Irrit. 2;H315 Eye Irrit. 2;H319
0000091-20-3	<3	Naphthalene	Carc. 2;H351 Acute Tox. 4;H302 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
0000095-63-6	<3	1,2,4-trimethylbenzene	Flam. Liq. 3;H226 Acute Tox. 4;H332 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Aquatic Chronic 2;H411
Proprietary or N/A	<3	Petroleum distillates	Not Classified
Proprietary or N/A	<3	Proprietary additive	Not Classified
Proprietary or N/A	<3	Barium Sulfonate	Not Classified

shown in Section

* The full texts of the phrases are s 6.

SECTION 4	FIRST AID MEASURES
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General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.
Skin:	In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.
Eye:	In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.
Ingestion:	Do not induce vomiting. Call a doctor or emergency medical facility immediately.
Most important symptoms and effects, both acute and delayed.	No data available
Indication of any immediate medical attention and special treatment needed:	No data available

SECTION 5	FIRE FIGHTING MEASURES
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Extinguishing media: Use carbon dioxide (CO₂), dry chemical, or foam to extinguish flames.

Special hazards arising from the substance or mixture:Hazardous decomposition products. May form CO and CO₂.**Advice for fire-fighters:**

Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from firefighting to enter drains or water courses.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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Equipment and emergency procedures:

Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.

Environmental precautions:

Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.

Methods and m**ment and cleaning up:**

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials. Place in closed containers outside buildings and dispose of according to the Waste Regulations. See section 13.

Clean preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes, the Environmental Protection Authority should also be informed.

Dispose of in accordance with local environmental regulations.

SECTION 7	HANDLING AND STORAGE
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Precautions for safe handling:**Handling:**

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapour. Use with adequate ventilation.

In storage:

Store in a dry location at room temperature. Keep this container and vapours from the container away from heat and flame.

Keep container closed and maintain all original markings and labels.

Conditions for safe storage including any incompatibilities:

Keep away from strong oxidizing and reducing agents.

CAUTION: Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even those that have been emptied will retain product residue and vapours. Always obey hazard warnings and handle empty containers as if they were full.

There are no exposure scenarios, see details in section 1.

Specific end use(s):

SECTION 8	EXPOSURE CONTROLS - PERSONAL PROTECTION
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Control parameters:

The following occupational exposure limits have been established.

CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000091-20-3	Naphthalene	OSHA	TWA 10 ppm (50 mg/m ³) STEL 15 ppm
		ACGIH	10 ppm TWA 15 ppm STEL
		NIOSH	TWA 10 ppm (50 mg/m ³) ST 15 ppm (75mg/m ³)
0000095-63-6	1,2,4-trimethylbenzene	OSHA	No established limit

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CAS NUMBER	INGREDIENT	ACGIH	NIOSH	OSHA	REMARKS
0000104-76-7	2-Ethylhexanol	No established limit	TWA 25 ppm (125 mg/m3)	No established limit	
0027247-96-7	2-Ethylhexyl nitrate	No established limit	No established limit	No established limit	
0064742-47-8	Distillates (petroleum),hydrotreated light	No established limit	No established limit	No established limit	
0064742-52-5	Distillates (petroleum) hydrotreated heavy naphthenic	No established limit	No established limit	No established limit	
0064742-54-7	Petroleum distillates, hydrotreated heavy paraffin	No established limit	No established limit	No established limit	
Proprietary or N/A	Petroleum distillates	No established limit	No established limit	No established limit	
Proprietary or N/A	Proprietary additive	No established limit	No established limit	No established limit	
Proprietary or N/A	Barium Complex	No established limit	No established limit	No established limit	
Proprietary or N/A	Barium Sulfonate	No established limit	No established limit	No established limit	

Contains mineral oil. The exposure limits for oil mist are 5mg/m3 OSHA PEL and 10mg/m3 ACGIH.

Carcinogen data:

CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000091-20-3	Naphthalene	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: Yes; Group 3: No; Group 4: No;
0000095-63-6	1,2,4-trimethylbenzene	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0000104-76-7	2-Ethylhexanol	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0027247-96-7	2-Ethylhexyl nitrate	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-47-8	Distillates (petroleum), hydrotreated light	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-52-5	Distillates (petroleum) hydrotreated heavy naphthenic	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-54-7	Petroleum distillates, hydrotreated heavy paraffin	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Petroleum distillates	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Proprietary additive	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Barium Complex	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No;

Proprietary or N/A Barium Sulfonate

OSHA
IARCGroup 3: No; Group 4: No;
Select Carcinogen: No
Group 1: No; Group 2A: No; Group 2B: No;
Group 3: No; Group 4: No;

DNEL/PNEC values:	No data available
Exposure controls:	No special requirements under ordinary conditions of use and with adequate ventilation.
Eye/face protection:	Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.
Skin protection:	Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes or signs of wear.
Other:	Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.
Respiratory protection:	Use NIOSH/OSHA approved respirator where high vapour concentrations are present.
Thermal hazards:	No data available.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	RED OILY LIQUID		
Odour:	Petroleum odour		
Odour threshold:	Not determined	pH:	Not measured
Melting point/freezing point (C):	Not determined	Initial boiling point and boiling range (C):	>220
Flash point (C):	> 120	Evaporation rate (H2O = 1):	Not determined
Flammability (solid, gas):	Not applicable	Relative density:	0.899
Vapour pressure (Pa):	Not determined	Vapour density:	Heavier than air
Solubility(ies):	negligible	Auto-ignition temperature (C):	Not determined
Decomposition temperature:	Not determined	Pour point temperature (C):	Not determined
Volatile Organic Compounds:	nil	SADT:	Not determined
Viscosity (cSt) @ 100 C:	Not measured	Viscosity (cSt) @ 40 C:	Not measured
Upper/lower flammability or explosive limits			
Lower Explosive Limit:	Not determined	Upper Explosive Limit:	Not determined
Partition coefficient n-octanol/water (Log Kow):			Not determined

The data listed above are typical physical and chemical properties that do not constitute product specification.

Other information:

DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

SECTION 10	STABILITY AND REACTIVITY
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Reactivity:	No data available
Chemical Stability:	Material is normally stable at ambient temperature and pressure.
Possibility of hazardous reactions:	May react with oxidising agents
Conditions to avoid:	High temperature, sparks and open flames.
Incompatible materials:	Keep away from strong oxidising and reducing agents.
Hazardous decomposition products:	May form CO and CO2.

SECTION 11	TOXICOLOGICAL INFORMATION
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Acute toxicity

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The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LD50, mg/L/4hr
1,2,4-trimethylbenzene – (0000095-63-6)	Not Available	Not Available	Not Available
2-Ethylhexanol – (0000104-76-7)	Not Available	Not Available	Not Available
2-Ethylhexyl nitrate – (0027247-96-7)	>2,000, Rat	>2,000, Rabbit	6.39, Rat
Distillate (petroleum) hydrotreated heavy naphthenic – (0064742-52-5)	>5,000, Rat	5,000.00, Rabbit	Not Available
Distillates (petroleum), hydrotreated light – (0064742-47-8)	>5,000, Rat	>2,000, Rabbit	Not Available
Naphthalene – (0000091-20-3)	2,001.00, Rat	2,501.00, Rat	101.00, Rat
Petroleum distillates, hydrotreated heavy paraffin – (0064742-54-7)	>5,000, Rat	>5,000, Rabbit	Not Available
Petroleum Distillates – (Proprietary or N/A)	Not Available	Not Available	Not Available
Proprietary additive – (Proprietary or N/A)	Not Available	Not Available	Not Available
Barium Complex – (Proprietary or N/A)	>5,000, Rat	>2,000, Rabbit	Not Available
Barium Sulfonate – (Proprietary or N/A)	Not Available	Not Available	Not Available

Classification	Category	Hazard Description
Acute toxicity (oral)	Not classified	Not applicable
Acute toxicity (dermal)	Not classified	Not applicable
Acute toxicity (inhalation)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
Serious eye damage/irritation	Not classified	Not applicable
Respiratory sensitisation	Not classified	Not applicable
Skin sensitisation	Not classified	Not applicable
Germ cell mutagenicity	Not classified	Not applicable
Carcinogenicity	Not classified	Not applicable
Reproductive toxicity	Not classified	Not applicable
STOT – single exposure	Not classified	Not applicable
STOT – repeated exposure	Not classified	Not applicable
Aspiration hazard	Not classified	Not applicable

SECTION 12	ECOLOGICAL INFORMATION
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Toxicity:

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Aquatic Ecotoxicity:

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Distillates (petroleum), hydrotreated light – (0064742-47-8)	2.20, Lepomis macrochirus	4,720.00, Dendronereides heteropoda	Not Available
Distillate (petroleum) hydrotreated heavy naphthenic – (0064742-52-5)	5,000.00, Oncorhynchus mykiss	1,000.00, Daphnia magna	1,000.00 (96 hr), Scenedesmus subspicatus
2-Ethylhexyl nitrate – (0027247-96-7)	12.60, Fish (Piscis)	Not Available	0.00 (72 hr),

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2-Ethylhexanol – (0000104-76-7)	10.00, Lepomis macrochirus	39.00, Daphnia magna	10.00 (72 hr), Chlorella emersonii
Naphthalene – (0000091-20-3)	1.20, Oncorhynchus gorbuscha	1.60, Daphnia magna	68.21 (72 hr), Scenedesmus subspicatus
1,2,4-trimethylbenzene – (0000095-63-6)	7.72, Pimephales promelas	3.60, Daphnia magna	Not Available
Petroleum distillates, hydrotreated heavy paraffin – (0064742-54-7)	Not Available	Not Available	Not Available
Petroleum Distillates – (Proprietary or N/A)	Not Available	Not Available	Not Available
Proprietary additive - (Proprietary or N/A)	Not Available	Not Available	Not Available
Barium Complex – (Proprietary or N/A)	Not Available	Not Available	Not Available
Barium Sulfonate – (Proprietary or N/A)	Not Available	Not Available	Not Available

Persistence and degradability: There is no data available on the preparation itself.

Bioaccumulative potential: Not measured

Mobility in soil: No data available

Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals

Other adverse effects: No data available

SECTION 13	DISPOSAL CONSIDERATIONS
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Waste treatment methods: Consult federal, state and local regulations regarding disposal methods. Recycle used oil. Do not contaminate used oil with solvents or other chemicals.

SECTION 14	TRANSPORTATION INFORMATION
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UN Number: Not applicable

UN proper shipping name: Not regulated

Transport hazard class(es):

US DOT Label Combustible Liquid, N.O.S. for packages >119 Gallons (450 litres)

ADR/RID Not regulated

IMDG Not regulated

Sub class Not applicable

Packing group: Not applicable

Environmental hazards:

ADR/RID Environmentally Hazardous: Yes – Not regulated

IMDG Marine Pollutant: Yes (Distillates (petroleum), hydrotreated light) – Not regulated

Special precautions for user: No further information

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15	REGULATORY INFORMATION
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National Legislation:

United States:

The regulatory data in Section 15 is not intended to be all inclusive, only selected regulations are represented.

All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

SARA 311/312 (>0.1%): Acetic acid ethenyl ester**SARA 313 (>0.1%):** 1,2,4-trimethylbenzene
Acetic acid ethenyl ester
Naphthalene
Barium Complex
Barium Sulfonate**CERCLA (>0.1%):** Acetic acid ethenyl ester
Naphthalene**Inventory – Canada – Non – Domestic Substances List (NDSL):**

Not applicable

California Proposition 65 Cancer:Oxirane, methyl
Ethylene oxide
Naphthalene
Trace reportable aromatic compounds
Arsenic
Cadmium
Lead**California Proposition 65 Developmental:**Arsenic
Cadmium
Lead**California Proposition 65 Female Reproductive:**Ethylene oxide
Lead**California Proposition 65 Male Reproductive:**Ethylene oxide
Cadmium
Lead**Inventory – Australia - Inventory of Chemical Substances (AICS):**1,2,4-trimethylbenzene
2-Ethylhexanol
2-Ethylhexyl nitrate
Acetic acid ethenyl ester
Distillate (petroleum) hydrotreated heavy naphthenic
Distillate (petroleum), hydrotreated light
Naphthalene
Petroleum distillates, hydrotreated heavy paraffin
Barium Complex
Barium Sulfonate**Inventory – Japan Existing and New Chemical Substances (ENCS):**1,2,4-trimethylbenzene (3-7; 3-3427)
2-Ethylhexanol (2-217)
2-Ethylhexyl nitrate (2-3598)
Acetic acid ethenyl ester (2-728)
Distillate (petroleum) hydrotreated heavy naphthenic ()
Distillate (petroleum), hydrotreated light ()
Naphthalene (4-311)

Petroleum distillates, hydrotreated heavy paraffin ()

Korean Existing Chemicals Inventory:

1,2,4-trimethylbenzene
 2-Ethylhexanol
 2-Ethylhexyl nitrate
 Acetic acid ethenyl ester
 Distillate (petroleum) hydrotreated heavy naphthenic
 Distillate (petroleum), hydrotreated light
 Naphthalene
 Petroleum distillates, hydrotreated heavy paraffin

Inventory of Existing Chemicals Substances in China:

2-Ethylhexyl nitrate
 Acetic acid ethenyl ester
 Distillate (petroleum), hydrotreated light
 Petroleum distillates, hydrotreated heavy paraffin
 Barium Complex

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

Ethylhexanol	1,2,4-trimethylbenzene	2-
	2-Ethylhexyl nitrate	
	Acetic acid ethenyl ester	
	Distillate (petroleum) hydrotreated heavy naphthenic	
	Distillate (petroleum), hydrotreated light	
	Naphthalene	
	Petroleum distillates, hydrotreated heavy paraffin	
	Barium Complex	
	Barium Sulfonate	

Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act:

Acetic acid ethenyl ester

EU REACH: Annex XVII, Dangerous Substances and Preparations:

Distillate (petroleum) hydrotreated heavy naphthenic
 Petroleum distillates, hydrotreated heavy paraffin

Inventory - European Union – European Inventory of Existing Commercial Chemical Substances (EINECS):

1,2,4-trimethylbenzene (202-436-9)
 2-Ethylhexanol (203-234-3)
 2-Ethylhexyl nitrate (248-363-6)
 Acetic acid ethenyl ester (203-545-4)
 Distillate (petroleum) hydrotreated heavy naphthenic (265-155-0)
 Distillates (petroleum), hydrotreated light (265-149-8)
 Naphthalene (202-049-5)
 Petroleum distillates, hydrotreated heavy paraffin (265-157-1)
 Barium Complex ()
 Barium Sulfonate ()

EU List of Notified Chemical Substances (ELINCS): Not applicable**Risk Phrases:**

R40 Limited evidence of a carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65

Harmful: may cause lung damage if swallowed.

SECTION 16**OTHER INFORMATION**

This information has been compiled from sources considered to be dependable and is accurate to the best of Morey Oil South Pacific Ltd knowledge. Morey Oil South Pacific Ltd makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Morey Oil South Pacific Ltd assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects

This is the first revision of this SDS Format, changes from previous revision not applicable.

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