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 2/50 SUCCESS STREET, ACACIA RIDGE

QLD 4110, 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 If skin irritation occurs: Get medical advice/attention.

P391 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 NFPA Health: 2

Fire: 2 Fire: 2 Physical: 0 Reactivity: 0

Hazards:

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		
CAS Number	%	Name E	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 naphthen	nic 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	
		hown in Section		

*	The	full	teyte	Ωf	the	nh	rases	are	c	6

SECTION 4	FIRST AID MEASURES
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.

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

Most important symptoms and effects, both acute and delayed.

Indication of any immediate medical attention and special treatment needed:

No data available

No data available

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

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 nent 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

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

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/m3)

STEL 15 ppm

ACGIH 10 ppm TWA 15 ppm STEL NIOSH TWA 10 ppm (50 mg/m3)

ST 15 ppm (75mg/m3)

0000095-63-6 1,2,4-trimethylbenzene OSHA No established limit

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

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

Carcinogen data:

040 11111000	MODERIENT	0011005	VALUE
CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000091-20-3	Naphthalene	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: Yes;
			Group 3: No; Group 4: No;
0000095-63-6	1,2,4-trimethylbenzene	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
0000104-76-7	2-Ethylhexanol	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
0027247-96-7	2-Ethylhexyl nitrate	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
0064742-47-8	Distillates (petroleum),	OSHA	Select Carcinogen: No
	hydrotreated light	IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
0064742-52-5	Distillates (petroleum) hydrotreated	OSHA	Select Carcinogen: No
	heavy naphthenic	IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
0064742-54-7	Petroleum distillates, hydrotreated	OSHA	Select Carcinogen: No
	heavy paraffin	IARC	Group 1: No; Group 2A: No; Group 2B: No;
	, .		Group 3: No; Group 4: No;
Proprietary or N/A	Petroleum distillates	OSHA	Select Carcinogen: No
, ,		IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
Proprietary or N/A	Proprietary additive	OSHA	Select Carcinogen: No
	represent and and	IARC	Group 1: No; Group 2A: No; Group 2B: No;
			Group 3: No; Group 4: No;
Proprietary or N/A	Barium Complex	OSHA	Select Carcinogen: No
i)	1	IARC	Group 1: No; Group 2A: No; Group 2B: No;

Group 3: No; Group 4: No;
Proprietary or N/A Barium Sulfonate OSHA Select Carcinogen: No

IARC 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

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 (H20 = 1): Not determined

Flammability (solid, gas): Not applicable Relative density: 0.899

Vapour pressure (Pa): Not determined Heavier than air Vapour density: Auto-ignition temperature (C): Solubility(ies): negligible Not determined **Decomposition temperature:** Not determined Pour point temperature (C): Not determined **Volatile Organic Compounds:** SADT: Not determined nil

Viscosity (cSt) @ 100 C: Not measured Viscosity (cSt) @ 40 C

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

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

Acute toxicity

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 application
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
•		11

SECTION 12 ECOLOGICAL INFORMATION

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),

SAFETY DATA SHEET CODE: 11000-SK **REVISION: 22/05/20** 2-Ethylhexanol - (0000104-76-7) 10.00, Lepomis 39.00, Daphnia 10.00 (72 hr), Chlorella macrochirus magna emersonii Naphthalene - (0000091-20-3) 1.20, Oncorhynchus 1.60, Daphnia 68.21 (72 hr), Scenedesmus gorbuscha subspicatus magna 1,2,4-trimethylbenzene - (0000095-63-6) 7.72, Pimephales 3.60, Daphnia Not Available promelas magna Petroleum distillates, hydrotreated heavy paraffin - (0064742-54-7) Not Available Not Available Not Available Not Available Not Available Petroleum Distillates – (Proprietary or N/A) 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

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

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:

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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SAFETY DATA SHEET

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.

CODE: 11000-SK

REVISION: 22/05/20

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):

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

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

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.

End of document