

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 1 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Multi-purpose additive for petrol fuel
MSDS Number	:	888100007465
Product Use Description	:	Fuel additive
Company	:	Volkswagen Canada, Inc. 777 Bayly Street West Ajax, Ontario Canada L1S 7G7
Telephone	:	248 754 4944 8:00 am. – 5:00 pm. EST
Telefax	:	248 754 4943
Emergency telephone number	:	631 996 6666

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

Signal Word : WARNING

Form : liquid

Colour : yellow

Odour : oily

Odour - Control parameters : no data available

Hazard Summary : Combustible Liquid
May cause cancer.
May cause birth defects.

Irritant

Sensitiser

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 2 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

Potential Health Effects

Eyes : May cause eye irritation.

Skin : May cause allergic skin reaction.
May cause skin irritation.

Inhalation : Causes respiratory tract irritation.

Chronic Exposure : Suspect reproductive hazard - contains material which may injure unborn child.

Target Organs : Eyes
Skin
Respiratory system
Central nervous system

Carcinogenicity:
ACGIH : Low boiling point naphtha - unspecified (CAS-No.: 64742-95-6)

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC : cumene (CAS-No.: 98-82-8)

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.
cumene (CAS-No.: 98-82-8)

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 3 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent
Oxirane, ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. Residu	220795-29-9	$\geq 75 - < 80$
Low boiling point naphtha - unspecified	64742-95-6	$\geq 15 - < 20$
1,2,4-trimethylbenzene	95-63-6	$\geq 7 - < 10$
xylene	1330-20-7	$\geq 0.75 - < 1$

SECTION 4. FIRST AID MEASURES

General advice	: Remove from exposure, lie down. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person. Take off all contaminated clothing immediately.
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
Skin contact	: Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners.
Eye contact	: Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position. Do NOT induce vomiting. Keep at rest.

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 4 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

SECTION 5. FIREFIGHTING MEASURES

Form	: liquid
Flash point	: 38 ° C (100 ° F)
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media which shall not be used for safety reasons	: High volume water jet
Specific hazards during firefighting	: Fire will produce dense black smoke containing hazardous combustion products (see section 10). Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment for firefighters	: Complete suit protecting against chemicals
Further information	: Standard procedure for chemical fires. Exposure to decomposition products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 5 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---------------------------|--|
| Personal precautions | : Refer to protective measures listed in sections 7 and 8.
Ventilate the area.
Remove all sources of ignition.
Avoid inhalation of vapour or mist. |
| Environmental precautions | : Should not be released into the environment.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods for cleaning up | : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. |

SECTION 7. HANDLING AND STORAGE

Handling

- | | |
|---|--|
| Handling | : Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
Take precautionary measures against static discharges.
For personal protection see section 8. |
| Advice on protection against fire and explosion | : Vapours may form explosive mixture with air.
Keep away from heat and sources of ignition.
Do not smoke.
Electrical equipment should be protected to the appropriate standard. |
| Dust explosion class | : not applicable |

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 6 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

Storage

Requirements for storage : Keep containers tightly closed in a dry, cool and well-ventilated areas and containers place.

Store in original container.

Keep away from heat.

No smoking.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Incompatible with oxidizing agents.

Incompatible with acids.

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
Low boiling point naphtha - unspecified	64742-95-6	CA AB OEL	TWA	200 mg/m3	2009-04-30
1,2,4-trimethylbenzene	95-63-6	CA BC OEL	TWA	25 ppm	2006-11-29
		CA ON OEL	TWAEV	25 ppm 123 mg/m3	2005-12-17

Engineering measures : Provide adequate ventilation.

Eye protection : Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 7 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : impervious clothing
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
When using do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : yellow
- Odour : oily
- Flash point : 38 ° C (100 ° F)
- Thermal decomposition : Heating can release hazardous gases.
- Lower explosion limit : no data available

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 8 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

Upper explosion limit	: no data available
pH	: not applicable
Solidification / Setting point	: no data available
Boiling point/boiling range	: no data available
Density	: 0.941 g/cm ³ at 15 ° C (59 ° F)
Water solubility	: insoluble
Viscosity, dynamic	: no data available
Viscosity, kinematic	: 27 mm ² /s at 40 ° C (104 ° F)
Volatile organic compounds (VOC) content	: no VOC duties

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Keep away from heat and sources of ignition.
Materials to avoid	: Incompatible with acids. Incompatible with oxidizing agents.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), dense black smoke.
Thermal decomposition	: Heating can release hazardous gases.
Hazardous reactions	: Vapours may form explosive mixture with air. Note: Stable under recommended storage conditions.

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 9 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute inhalation toxicity : Irritating to respiratory system.
- Skin irritation : Irritating to skin.
- Carcinogenicity : No data is available on the product itself.
- Reproductive toxicity : No data is available on the product itself.
- Teratogenicity : No data is available on the product itself.
- Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Component:

1,2,4-trimethylbenzene	95-63-6	<u>Acute inhalation toxicity</u> : LC50 rat Dose: 18 mg/l Exposure time: 4 h Irritating to respiratory system. <u>Skin irritation</u> : Classification: Irritating to skin. Result: Skin irritation <u>Eye irritation</u> : Classification: Irritating to eyes. Result: Eye irritation
xylene	1330-20-7	<u>Acute oral toxicity</u> : LD50 rat Dose: 2,840 mg/kg <u>Acute dermal toxicity</u> : LD50 rabbit Dose: ca. 4,500 mg/kg <u>Acute inhalation toxicity</u> : LC50 rat Dose: 28 mg/l Exposure time: 4 h <u>Skin irritation</u> : Classification: Irritating to skin.

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 10 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

Result: Mild skin irritation

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

Teratogenicity: Damage to fetus cannot be excluded.

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound : not included

halogens (AOX)

Additional ecological : The product should not be allowed to enter drains, water
information courses or the soil.

Component:

Low boiling point naphtha -
unspecified

64742-95-6

Toxicity to fish:

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

1,2,4-trimethylbenzene

95-63-6

Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: 7.72 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia

Dose: 3.6 mg/l

Exposure time: 48 h

xylene

1330-20-7

Toxicity to fish:

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 8.2 mg/l

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 11 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 75.5 mg/l

Exposure time: 24 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

Regulation : Can be shipped as consumer commodity.

TDGR

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

UN number : 1993

Class : 3

Packing group : III

Emergency Response : 128

Guidebook Number

ICAO / IATA-DGR

ID No : UN 1993

Description of the goods : Flammable liquid, n.o.s.
(Low boiling point naphtha - unspecified, 1,2,4-trimethylbenzene)

Class : 3

Packaging group : III

ICAO-Labels : 3

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 12 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

Packing instruction (cargo : 366
aircraft)Packing instruction : 355
(passenger aircraft)Packing instruction : Y344
(passenger aircraft)**IMDG-Code**

UN number : UN 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.
(Low boiling point naphtha - unspecified, 1,2,4-
trimethylbenzene)

Class : 3

Packaging group : III

IMDG-Labels : 3

EmS Number : F-E S-E

Marine Pollutant : yes (Oxirane, ethyl-, homopolymer, 2-aminobutyl
ether, ether with mixed distn. Residu)**SECTION 15. REGULATORY INFORMATION****TSCA Status** : On TSCA Inventory**DSL Status** : All components of this product are on the Canadian DSL.**California Prop. 65** : WARNING! This product contains a chemical known to the
State of California to cause cancer.cumene98-82-8**WHMIS Classification** : B3 Combustible Liquid

Material Safety Data Sheet

Print Date: 01/30/2019

Revision Date : 03/13/2013

Page 13 of 13

Commercial Product Name: **Multi-purpose additive for petrol fuel**

Part number: G 001780M3

Version : 1.0

D2A Very Toxic Material Causing Other Toxic Effects

D2B Toxic Material Causing Other Toxic Effects

Combustible Liquid

Carcinogen

Teratogen

Moderate skin irritant

Moderate respiratory irritant

Moderate eye irritant

Skin sensitiser

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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