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Material Safety Data Sheet

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Prepared by: Corporate Regulatory Services, 3M Canada Company
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1 Chemical Product and Company Identification

Tradename:

3M(TM) MULTI-PORT FUEL INJECTOR CLEANER P.N. 08912 (INACTIVE)

Product ID:

62-4600-4909-1 60-9800-3320-7

Intended Use of Product:

Cleaner;

Division:

AUTOMOTIVE AFTERMARKET

2 Hazards Identification

Critical Hazards:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Ingestion may cause: Harmful or fatal if swallowed. Blindness.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.



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High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

Aerosol container contains flammable gas under pressure. Extremely flammable liquid and vapour.

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
TOLUENE	108-88-3	30.0 - 60.0
XYLENE	1330-20-7	10.0 - 30.0
METHYL ALCOHOL	67-56-1	10.0 - 30.0
DIACETONE ALCOHOL	123-42-2	10.0 - 30.0
LIQUEFIED PETROLEUM GAS	68476-85-7	5.0 - 10.0

Ingredient Statements:

NOTE: ++ Propellant blend (isobutane, butane, and propane) is separate from other ingredients; propellant is not released from can.

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

Instructions for Skin Contact:

Flush skin with large amounts of water. If irritation persists, get medical attention.

Instructions for Inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Instructions for Ingestion:

Call a physician IMMEDIATELY. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.



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5 Fire Fighting Measures

Flash point: -45.6 C TCC - Propellent
Lower Explosive Limit (%): 1.27 % by volume
Upper Explosive Limit (%): 36.50 % by volume
Autoignition temperature: Not Available.

Suitable Extinguishing Media:

Carbon Dioxide; Dry chemical; Foam;

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon monoxide and carbon dioxide; Toxic vapours, gases or particulates;

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

6 Accidental Release Measures

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Environmental Procedures

No data available.

Methods for cleaning up

No data available.

Spill Response:

Ventilate the area with fresh air. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Contain spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Cover with absorbent material. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water.

An AR - AFFF type foam is recommended. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue. Place in an approved metal container. Seal the container.



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Place leaking containers in a well-ventilated area, preferably in an exhaust hood, if available, or outdoors.

Methods for Disposal:

If necessary, vent in hood or remote area. Incinerate in a permitted hazardous waste incinerator. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill. Disposal alternative: Dispose of waste product in a facility permitted to accept chemical waste.

7 Handling and Storage

Storage Requirements:

Store at temperatures below 120 degrees F (49 degrees C).

Incompatible Materials:

Heat;

Ventilation:

No data available.

Fire Prevention:

Aerosol container contains flammable gas under pressure. Extremely flammable liquid and vapour.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Vapours may ignite explosively.

Static Prevention:

Avoid static discharge.

Use Instructions:

Do not pierce or burn container, even after use. For industrial or professional use only.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray. Indirect vented goggles; Safety glasses with side shields

Hand Protection:

Wear appropriate gloves when handling this material. The following glove material(s) are recommended: polyethylene/ethylene vinyl alcohol; polytetrafluoroethylene fluoroelastomer

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Ingestion (Prevention):

Wash hands after handling and before eating. Do not ingest. Keep



out of the reach of children.

Recommended Ventilation:

Do not use in a confined area or areas with little or no air

movement. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Ingredient Exposure Data

TOLUENE (108-88-3)

LD50 (rat, oral) 636 mg/kg
LD50 (dermal, rabbit) 14100 uL/kg
LC50 (rat, inhalation/4 hours) LC50 (female rat,
inhalation/4 hours vapour):
19.0 mg/l

Exposure Limits

ACGIH: TWA 20 ppm
CMRG: STEL 75 ppm (skin contact contributes to exposure)

XYLENE (1330-20-7)

LD50 (rat, oral) 3523 mg/kg
LD50 (dermal, rabbit) > 1700 mg/kg
LC50 (rat, inhalation/4 hours) 5000 ppm

Exposure Limits

ACGIH-TWA: 100 ppm
ACGIH: STEL 150 ppm
CMRG: TWA 50 ppm
CMRG: STEL 75 ppm

METHYL ALCOHOL (67-56-1)

LD50 (rat, oral) 5600 mg/kg
LD50 (dermal, rabbit) 15800 mg/kg
LC50 (rat, inhalation/4 hours) 64000 ppm

Exposure Limits

ACGIH-TWA: 200 ppm (skin contact contributes to exposure)
ACGIH: STEL 250 ppm (skin contact contributes to exposure)

DIACETONE ALCOHOL (123-42-2)

LD50 (rat, oral) 4000 mg/kg
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 50 ppm
50 ppm ACGIH: TWA

LIQUEFIED PETROLEUM GAS (68476-85-7)

LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 1000 ppm ACGIH-TWA: Category: ALKANES, C1-4

9 Physical and Chemical Properties

Physical form,Color,Odour: Liquid in aerosol container;
solvent odour;
Odour Threshold: No data available.
pH: Not Available.
Boiling point/boiling range: Compressed Gas;
Melting point/melting range: Not Available.
Vapour pressure: Compressed Gas;
Water Solubility: Slight
Specific gravity: Not applicable.
Vapour density: Approximately 3.00 Air=1
Volatile organic compounds: 860.00 gms/liter calculated
Evaporation rate: > 5.00 Ether=1
Viscosity: Not applicable.
Percent Volatile: No data available.

10 Stability and Reactivity

Conditions to Avoid:
None known.
Materials to Avoid:
Heat;
Hazardous Decomposition:
Carbon monoxide and carbon dioxide; Toxic vapours, gases or
particulates;
Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:
Moderate Eye Irritation: Signs/symptoms may include redness,
swelling, pain, tearing, and blurred or hazy vision.
Effects from Skin Contact:
Moderate Skin Irritation: Signs/symptoms can include localized
redness, swelling, itching, and dryness. May be absorbed through
the skin and produce effects similar to those caused by inhalation

and/or ingestion.

Effects from Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Upper

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and



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throat pain. Prolonged or repeated overexposure, above recommended guidelines, may cause: Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain. Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen. Central Neuropathy: signs/symptoms can include dizziness, incoordination, visual changes, emotional changes, tremors and convulsions.

Effects from Ingestion:

Ingestion may cause: Harmful or fatal if swallowed. Blindness.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

Sensitization Information:

No data available.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

Component Based Information:

No data available.

Product Based Information:

No data available.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

No data available.

Ecofate Data:

Other Effects and Information:

Not determined.

13 Disposal Considerations

Product as Sold:

No data available.

Product after Use:

Do not puncture or burn cans in a household incinerator.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.



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14 Transport Information

Transportation of Dangerous Goods

TDG Classification: Consumer Commodity by ground
Do not ship by air.

Special Information:

15 Regulatory Information

WHMIS Classification: A, B5, D2A

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the

following countries' chemical inventories, as noted:

DSL - Domestic Substances List (Canada)

CICS - Chinese Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECI - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 8 - Exposure Controls/Personal Protection

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within



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the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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