MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001
Date Prepared: 07/06/00
Date Printed: 04/30/01
MSDS No: 503.0326705-001.002

PENSKE FUEL INJECTOR & CARB CLNR 12/12 O

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: PENSKE FUEL INJECTOR & CARB CLNR 12/12 O
SAP Material No: PN74312
General or Generic ID: GASOLINE ADDITIVE

Company
The Valvoline Company
P.O. Box 14000
Lexington, KY 40512

Telephone Numbers
Emergency: 1-800-274-5263
Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) | CAS Number | % (by weight)
------------- |------------|-------------------
KEROSENE     | 8008-20-6  | 91.0-100.0        
GASOLINE PERFORMANCE ADDITIVE |            | 1.0-9.0          

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye
Can cause eye irritation. Additional symptoms of eye exposure may include: blurred vision.

Skin
May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.

Swallowing
Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation
Breathing of vapor or mist is possible.

Symptoms of Exposure
Stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

Target Organ Effects
No data

Developmental Information
No data

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Cancer Information
This product (or a component) is a petroleum-derived material. Similar
materials and certain compounds occurring naturally in petroleum oils have been
shown to cause skin cancer in laboratory animals following repeated exposure
without washing or removal.

Other Health Effects
No data

Primary Route(s) of Entry
Inhalation, Skin contact.

4. FIRST AID MEASURES

Eyes
If symptoms develop, immediately move individual away from exposure and into
fresh air. Flush eyes gently with water for at least 15 minutes while holding
eyelids apart; seek immediate medical attention.

Skin
Remove contaminated clothing. Wash exposed area with soap and water. If
symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing
Seek medical attention. If individual is drowsy or unconscious, do not give
anything by mouth; place individual on the left side with the head down;
contact a physician, medical facility, or poison control center for advice
about whether to induce vomiting. If possible, do not leave individual
unattended.

Inhalation
If symptoms develop, immediately move individual away from exposure and into
fresh air. Seek immediate medical attention; keep person warm and quiet. If
person is not breathing, begin artificial respiration. If breathing is
difficult, administer oxygen.

Note to Physicians
This material is an aspiration hazard. Potential danger from aspiration must be
weighed against possible oral toxicity (see Section 3 - Swallowing) when
deciding whether to induce vomiting.

5. FIRE FIGHTING MEASURES

Flash Point
> 115.0 °F (46.1 °C) PMCC

Explosive Limit
No data

Autoignition Temperature
No data

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Hazardous Products of Combustion
May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards
Vapors are heavier than air and may travel along the ground or be moved by
ventilation and ignited by heat, pilot lights, other flames and ignition
sources at locations distant from material handling point. Never use welding
or cutting torch on or near drum (even empty) because product (even just
residue) can ignite explosively.

Extinguishing Media
regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions
Wear a self-contained breathing apparatus with a full facepiece operated in the
positive pressure demand mode with appropriate turn-out gear and chemical
resistant personal protective equipment. Refer to the personal protective
equipment section of this MSDS.

NFPA Rating
Health - 1, Flammability - 2, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill
Absorb liquid on vermiculite, floor absorbent, or other absorbent material and
transfer to hood.

Large Spill
Eliminate all ignition sources (flares, flames including pilot lights,
electrical sparks). Persons not wearing protective equipment should be excluded
from area of spill until clean-up has been completed. Stop spill at source.
Prevent from entering drains, sewers, streams or other bodies of water.
Prevent from spreading. If runoff occurs, notify authorities as required.
Pump or vacuum transfer spilled product to clean containers for recovery.
Absorb unrecoverable product. Transfer contaminated absorbent, soil and other
materials to containers for disposal. Prevent run-off to sewers, streams or
other bodies of water. If run-off occurs, notify proper authorities as
required, that a spill has occurred.

7. HANDLING AND STORAGE

Handling
Containers of this material may be hazardous when emptied. Since emptied
containers retain product residues (vapors, liquid, and/or solid), all hazard
precautions given in the data sheet must be observed. All five gallon pails
and larger metal containers including tank cars and tank trucks should be
grounded and/or bonded when material is transferred.

Storage
Not applicable

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection
Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection
Wear resistant gloves such as: neoprene, nitrile rubber. To prevent repeated or prolonged skin contact, wear impermeable clothing and boots.

Respiratory protections
If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines
Component
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KEROSENE (8008-20-6)
No exposure limits established

GASOLINE PERFORMANCE ADDITIVE
No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point
(for component) > 300.0 F (148.8 C) @ 760.00 mmHg

Vapor Pressure
(for component) 5.000 mmHg @ 77.00 F

Specific Vapor Density
No data

Specific Gravity
.788 - .825 @ 77.00 F

Liquid Density
6.900 lbs/gal @ 77.00 F
.800 kg/l @ 77.00 C

Percent Volatiles (Including Water)
No data

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Evaporation Rate
SLOWER THAN ETHYL ETHER

Appearance
CLEAR

State
LIQUID

Physical Form
No data

Color
YELLOW

Odor
KEROSENE

pH
No data

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability
Stable.

Incompatibility
Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information
Dispose of in accordance with all applicable local, state and federal regulations.

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14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101
DOT Description:
Not Regulated

Container/Mode:
CASES/SURFACE - COMBUSTIBLE EXCEPT ON

NOS Component:
KEROSENE

RQ (Reportable Quantity) - 49 CFR 172.101
Not applicable

15. REGULATORY INFORMATION

US Federal Regulations
TSCA (Toxic Substances Control Act) Status
TSCA (UNIT ED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4
None

SARA 302 Components - 40 CFR 355 Appendix A
None

Section 311/312 Hazard Class - 40 CFR 370.2
Immediate(X) Delayed(X) Fire(X) Reactive( ) Sudden Release of
Pressure( )

SARA 313 Components - 40 CFR 372.65
None

International Regulations
Inventory Status
DSL (CANADA) The intentional ingredients of this product are listed.

State and Local Regulations
California Proposition 65
None

New Jersey RTK Label Information
KEROSENE 8008-20-6

Pennsylvania RTK Label Information
KEROSENE (PETROLEUM) 8008-20-6

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not
warranted to be whether originating with the company or not. Recipients are
advised to confirm in advance of need that the information is current,
applicable, and suitable to their circumstances.

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