



FVP FUEL INJECTOR CLEANER

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 12/31/2014

Revision date: 07/12/18

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : FVP FUEL INJECTOR CLEANER
Product code : 2112

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel system cleaner.

1.3. Details of the supplier of the safety data sheet

Factory Motor parts
1380 Corporate Center Curve, #200
Eagan, MN 55121
866-387-3343

Emergency number: Infotrac
1-800-535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquid 2
Skin irritation 2
Carcinogenicity 2
Specific target organ toxicity - Single exposure 3
Aspiration hazard 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US) :

Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

4 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

FVP FUEL INJECTOR CLEANER

Not applicable

12/3/2014 Safety Data Sheet

EN (English)

Page 1

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012



FVP FUEL INJECTOR CLEANER

3.2. Mixture Safety Data Sheet

Name	Product Identifier	%	GHS-US classification
Kerosine, petroleum	(CAS No) 8008-20-6	60 - 100	Flam. Liq. 3 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
Polyolefin alkyl phenol alkyl amine	Proprietary	1 - 2	Skin Irrit. 2 Eye Irrit. 2A
Benzene, 1,2,4-trimethyl-	(CAS No) 95-63-6	0.5 - 1.5	Flam. Liq. 3 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3
Naphthalene	(CAS No) 91-20-3	< 0.5	Acute Tox. 4 (Oral) Carc. 2
Cumene	(CAS No) 98-82-8	< 0.1	Flam. Liq. 3 Acute Tox. 4 (Oral) Carc. 2 STOT SE 3 Asp. Tox. 1
Ethylbenzene	(CAS No) 100-41-4	< 0.1	Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2
Toluene	(CAS No) 108-88-3	< 0.1	Flam. Liq. 2 Skin Irrit. 2 Repr. 2 (developmental) STOT SE 3 STOT RE 2 Asp. Tox. 1
Benzene	(CAS No) 71-43-2	< 0.1	Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1A STOT RE 1 Asp. Tox. 1
Furan	(CAS No) 110-00-9	< 0.1	Flam. Liq. 1 Acute Tox. 4 (Oral) Acute Tox. 3 (Inhalation) Skin Irrit. 2 Muta. 2 Carc. 1B STOT RE 2
Propylene oxide	(CAS No) 75-56-9	< 0.1	Flam. Liq. 1 Acute Tox. 3 (Inhalation) Acute Tox. 4 (Oral, Dermal) Eye Irrit. 2A Muta. 1B Carc. 2 STOT SE 3
Acetaldehyde	(CAS No) 75-07-0	< 0.1	Flam. Liq. 1 Eye Irrit. 2A Carc. 2 STOT SE 3

* The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : f inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : n case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : n case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

FVP FUEL INJECTOR CLEANER

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

both acute
and delayed

FVP FUEL INJECTOR CLEANER

- 4.2. **Most important symptoms and effects** may cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
- Symptoms/injuries after inhalation : system depression.
- Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. Keep cool. Keep away from heat, sparks, and flame.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Kerosine, petroleum (8008-20-6)

USA ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
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Polyolefin alkyl phenol alkyl amine (Proprietary)

Not applicable

FVR FUEL INJECTOR CLEANER

ACGIH

OSHA

Not applicable

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

Benzene, 1,2,4-trimethyl- (95-63-6)

ACGIH Not applicable

OSHA Safety Data Sheet Not applicable

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Naphthalene (91-20-3)

USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

Cumene (98-82-8)

USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

Ethylbenzene (100-41-4)

USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

Toluene (108-88-3)

USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

Benzene (71-43-2)

USA ACGIH	ACGIH TWA (ppm)	0.5 ppm
USA ACGIH	ACGIH STEL (ppm)	2.5 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm

Furan (110-00-9)

ACGIH	Not applicable
OSHA	Not applicable

Propylene oxide (75-56-9)

USA ACGIH	ACGIH TWA (ppm)	2 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

Acetaldehyde (75-07-0)

USA OSHA	OSHA PEL (TWA) (mg/m ³)	360 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

8.2. Exposure controls

- Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Safety glasses or goggles are recommended when using product.
- Skin and body protection : Wear suitable protective clothing.

FVP FUEL INJECTOR CLEANER

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

Respiratory protection

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1201) and the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Environmental exposure controls

Other information

recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

: Maintain levels below Community environmental protection thresholds.

: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

A NIOSH approved respirator is

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: Clear
Color	: Amber
Odor	: Petroleum odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 22 °C (71 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.864 - 0.869
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

SECTION 11: Toxicological information

11.1.

Information on toxicological effects

FVP FUEL INJECTOR CLEANER

Acute toxicity

: Not classified.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

2112

Safety Data Sheet

LD50 oral rat > 2000 mg/kg
according to the Hazard Communication Standard (CFR29, 1910.1200), HazCom 2012

LD50 dermal rabbit > 2000 mg/kg

LC50 inhalation rat No data available

Kerosine, petroleum (8008-20-6)

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 2000 mg/kg

LC50 inhalation rat > 5.28 mg/l/4h

Benzene, 1,2,4-trimethyl- (95-63-6)

LD50 oral rat 3280 mg/kg

LD50 dermal rabbit > 3160 mg/kg

LC50 inhalation rat 18 g/m³/4h

Naphthalene (91-20-3)

LD50 oral rat 490 mg/kg

LD50 dermal rabbit > 20 g/kg

Cumene (98-82-8)

LD50 oral rat 1400 mg/kg

LD50 dermal rabbit >3160 mg/kg

LC50 inhalation rat 39000 mg/m³/4h

Ethylbenzene (100-41-4)

LD50 oral rat 3500 mg/kg

LD50 dermal rabbit 15354 mg/kg

LC50 inhalation rat 17.2 mg/l/4h

Toluene (108-88-3)

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit 8390 mg/kg

LD50 dermal rat 12124 mg/kg

LC50 inhalation rat 28.1 mg/l/4h

Benzene (71-43-2)

LD50 oral rat 930 mg/kg

LD50 dermal rabbit > 9.4 ml/kg

LC50 inhalation rat 13050-14380 ppm/4h

Furan (110-00-9)

LC50 inhalation rat 3398 ppm/1h

Propylene oxide (75-56-9)

LD50 oral rat 520 mg/kg

LD50 dermal rabbit 1244 mg/kg

LC50 inhalation rat 4000 ppm/4h

Acetaldehyde (75-07-0)

LD50 oral rat 1930 mg/kg

LC50 inhalation rat 13300 ppm/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Suspected of causing cancer.

Naphthalene (91-20-3)

FVP FUEL INJECTOR CLEANER		2B - Possibly carcinogenic to humans
IARC group	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen	
National Toxicology Program (NTP) Status		
Safety Data Sheet		
Cumene (98-82-8) Hazard Communication Standard (CFR29 1910.1200) HazCom 2012		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity	

FVP FUEL INJECTOR CLEANER		Ethylbenzene (100-41-4)
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity	

Toluene (108-88-3)		
IARC group	3 - Not classifiable	

Benzene (71-43-2)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens	
	In OSHA Specifically Regulated Carcinogen list	

Furan (110-00-9)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen	

Propylene oxide (75-56-9)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen	

Acetaldehyde (75-07-0)		
IARC group	1 - Carcinogenic to humans (associated with consumption of alcoholic beverages), 2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen	

- Reproductive toxicity : Based on available data, the classification criteria are not met.
- Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.
- Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.
- Aspiration hazard : May be fatal if swallowed and enters airways.
- Symptoms/injuries after inhalation : May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
- Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

2112	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

2112	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This material
must be
disposed of

FVP FUEL INJECTOR CLEANER

Waste disposal recommendations

in accordance with all local, state, provincial, and federal
regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information

: handle empty containers with care because residual vapors are flammable.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

SECTION 14: Transport information

Safety Data Sheet

In accordance with DOT according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

UN-No.(DOT) : JN1993
Proper Shipping Name (DOT) : Flammable liquids, n.o.s. (Petroleum, Benzene, 1,2,4-trimethyl-)
Department of Transportation (DOT) Hazard Classes : 3
Hazard labels (DOT) :



Packing group (DOT) : I

Additional information

Other information : No supplementary information available.
Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Benzene, 1,2,4-trimethyl- (95-63-6)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %
Naphthalene (91-20-3)	
Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	0.1 %
Cumene (98-82-8)	
Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 %
Ethylbenzene (100-41-4)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %
Toluene (108-88-3)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %
Benzene (71-43-2)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %
Furan (110-00-9)	
Listed on the United States SARA Section 302	
Listed on United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	500
SARA Section 313 - Emission Reporting	0.1 %
Propylene oxide (75-56-9)	
Listed on the United States SARA Section 302	
Listed on United States SARA Section 313	

FVR FUEL INJECTOR CLEANER

Acetaldehyde (75-07-0)

Listed on United States SARA Section 313

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1201) HAZ. 06/12/12

EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting

0.1 %

15.2. US State regulations

2112

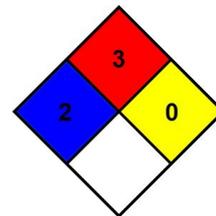
State or local regulations

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information

Indication of changes : None.
Date of issue : 12/31/2014
Other information : None.

NFPA health hazard : 2
NFPA fire hazard : 3
NFPA reactivity : 0



Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : FVP INTAKE VALVE DEPOSIT CLEANER
CAS No : 2312

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel System cleaner.

1.3. Details of the supplier of the safety data sheet

Factory Motor parts
1380 Corporate Center Curve, #200
Eagan, MN 55121
866-387-3343

1.4. Emergency telephone number

Emergency number : 800) 373-6729
: HEMTREC (800) 424-9300
: HEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquid 2
Acute toxicity 4 (Dermal, Inhalation)
Skin irritation 2
Carcinogenicity 2
Reproductive toxicity 2 (developmental)
Specific target organ toxicity - Repeated exposure 2
Aspiration hazard 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS02

GHS07

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Highly flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US) :

Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international

regulations.

FVP FUEL INJECTOR CLEANER

No additional information available

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

SECTION 3: Composition/information on ingredients

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	60 - 100	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Ethylbenzene	(CAS No) 100-41-4	7 - 30	Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2 Asp. Tox. 1
Toluene	(CAS No) 108-88-3	7 - 13	Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1
Solvent naphtha, petroleum, light aromatic	(CAS No) 64742-95-6	0.5 - 1.5	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A Asp. Tox. 1
Cumene	(CAS No) 98-82-8	< 0.1	Flam. Liq. 3 Carc. 2 STOT SE 3 Asp. Tox. 1
Benzene	(CAS No) 71-43-2	< 0.1	Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1A STOT RE 1 Asp. Tox. 1
Naphthalene	(CAS No) 91-20-3	< 0.1	Acute Tox. 4 (Oral) Carc. 2
Furan	(CAS No) 110-00-9	< 0.1	Flam. Liq. 1 Acute Tox. 3 (Inhalation) Acute Tox. 4 (Oral) Skin Irrit. 2 Muta. 2 Carc. 1B STOT RE 2
Propylene oxide	(CAS No) 75-56-9	< 0.1	Flam. Liq. 1 Acute Tox. 3 (Inhalation) Acute Tox. 4 (Oral, Dermal) Eye Irrit. 2A Muta. 1B Carc. 2 STOT SE 3
Acetaldehyde	(CAS No) 75-07-0	< 0.1	Flam. Liq. 1 Eye Irrit. 2A Carc. 2 STOT SE 3

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: f inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: n case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: n case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion	: f swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

FVP FUEL INJECTOR CLEANER

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

both acute
and delayed

FVP FUEL INJECTOR CLEANER

4.2. **Most important symptoms and effects:** Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after inhalation : May cause respiratory tract irritation.
Symptoms/injuries after skin contact : Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) Rev. 01/2012

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. Keep cool. Keep away from heat, sparks, and flame.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Xylenes (o-, m-, p- isomers) (1330-20-7)

USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm

USA OSHA	FVP FUEL INJECTOR CLEANER	435 mg/m ³
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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

Xylenes (o-, m-, p- isomers) (1330-20-7)

USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
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Safety Data Sheet

Ethylbenzene (100-41-4) Communication Standard (CFR29 1910.1200) HazCom 2012

USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

Toluene (108-88-3)

USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

Solvent naphtha, petroleum, light aromatic (64742-95-6)

USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Cumene (98-82-8)

USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

Benzene (71-43-2)

USA ACGIH	ACGIH TWA (ppm)	0.5 ppm
USA ACGIH	ACGIH STEL (ppm)	2.5 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm

Naphthalene (91-20-3)

USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

Furan (110-00-9)

USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Propylene oxide (75-56-9)

USA ACGIH	ACGIH TWA (ppm)	2 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

Acetaldehyde (75-07-0)

USA ACGIH	ACGIH Ceiling (ppm)	25 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	360 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

FVP FUEL INJECTOR CLEANER

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

EVP FUEL INJECTOR CLEANER

Use

8.2. Exposure controls

Appropriate engineering controls

ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal protective equipment

: Avoid all unnecessary exposure.

Hand protection

: Wear chemically resistant protective gloves.

Eye protection

: Safety glasses or goggles are recommended when using product.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

: Maintain levels below Community environmental protection thresholds.

Other information

: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid.
Appearance	: Clear.
Color	: Amber.
Odor	: Petroleum odor.
Odor threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: - 22 °C (~ 71 °F)
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Flammable.
Vapor pressure	: No data available.
Relative vapor density at 20 °C	: No data available.
Relative density	: 0.864 - 0.869
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

FVP FUEL INJECTOR CLEANER

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

10.5. Incompatible materials

Acids, bases, strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : harmful in contact with skin or if inhaled.

2312	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	>1000 but ≤2000 mg/kg
LC50 inhalation rat	>10.0 but ≤20.0 mg/l/4h (Calculated using ATE values)

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat	5000 ppm/4 h

Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15354 mg/kg
LC50 inhalation rat	17.2 mg/l/4h

Toluene (108-88-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	12124 mg/kg
LD50 dermal rabbit	8390 mg/kg
LC50 inhalation rat	28.1 mg/l/4h

Solvent naphtha, petroleum, light aromatic (64742-95-6)	
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	3400 ppm/4h
LC50 inhalation rat	> 5.2 mg/l/4h

Cumene (98-82-8)	
LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat	39000 mg/m ³ /4 h

Benzene (71-43-2)	
LD50 oral rat	930 mg/kg
LD50 dermal rabbit	> 9.4 mL/kg
LC50 inhalation rat	13050 - 14380 ppm/4h

Naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rabbit	> 20 g/kg
LC50 inhalation rat	>340 mg/m ³ /4 h

Furan (110-00-9)	
LC50 inhalation rat	3398 ppm/1h

Propylene oxide (75-56-9)	
LD50 oral rat	520 mg/kg
LD50 dermal rabbit	1244 mg/kg
LC50 inhalation rat	4000 ppm/4h

Acetaldehyde (75-07-0)

FVP FUEL INJECTOR CLEANER

1930
mg/kg

LC50 oral rat

LC50 inhalation rat

13300 ppm/4h

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Causes skin irritation.

FVP FUEL INJECTOR CLEANER

Skin corrosion/irritation

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

: Based on available data, the classification criteria are not met.

Carcinogenicity

: Suspected of causing cancer.

Xylenes (o-, m-, p- isomers) (1330-20-7)

IARC group 3 - Not classifiable

Ethylbenzene (100-41-4)

IARC group 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status 1 - Evidence of Carcinogenicity

Toluene (108-88-3)

IARC group 3 - Not classifiable

Cumene (98-82-8)

IARC group 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status 1 - Evidence of Carcinogenicity

Benzene (71-43-2)

IARC group 1 - Carcinogenic to humans

National Toxicity Program (NTP) Status 1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens

In OSHA Specifically Regulated Carcinogen list

Naphthalene (91-20-3)

IARC group 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

Furan (110-00-9)

IARC group 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

Propylene oxide (75-56-9)

IARC group 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

Acetaldehyde (75-07-0)

IARC group 1 - Carcinogenic to humans, 2B - Possibly carcinogenic to humans

National Toxicity Program (NTP) Status 3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity

: Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

: Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

: May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation

: Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.

Symptoms/injuries after skin contact

: Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact

: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion

: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

2312

Not

FVP FUEL INJECTOR CLEANER

Persistence and degradability established.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

12.3. Bioaccumulative potential

Safety Data Sheet

2312
According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Handle empty containers with care because residual vapors are flammable.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. : 3295

14.2. UN proper shipping name

Proper Shipping Name : Hydrocarbons, liquid, n.o.s. (Xylene, Ethylbenzene, Toluene)

Department of Transportation Hazard Classes : 3

Hazard labels :



Packing group : I

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Xylenes (o-, m-, p- isomers) (1330-20-7)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 %
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Ethylbenzene (100-41-4)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	0.1 %
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Toluene (108-88-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 %
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Cumene (98-82-8)

Listed on SARA Section 313 (Specific toxic chemical listings)

FVP FUEL INJECTOR CLEANER	T - T - indicates a substance
EPA TSCA Regulatory Flag	that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 %

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

Benzene (71-43-2)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

Naphthalene (91-20-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 0.1 %

Furan (110-00-9)

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 302 Threshold Planning Quantity (TPQ) 500

SARA Section 313 - Emission Reporting 0.1 %

Propylene oxide (75-56-9)

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 302 Threshold Planning Quantity (TPQ) 10000

SARA Section 313 - Emission Reporting 0.1 %

Acetaldehyde (75-07-0)

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 0.1 %

15.2. US State regulations

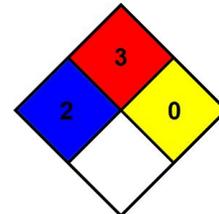
2312

State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
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SECTION 16: Other information

Indication of changes : None.
Date of issue : 07/24/2014
Other information : None.

IFPA health hazard : 2
IFPA fire hazard : 3
IFPA reactivity : 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : FVP F.I. AIR INTAKE CLEANER
 Product code : 2412

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel system cleaner.

1.3. Details of the supplier of the safety data sheet

Factory Motor parts
 1380 Corporate Center Curve, #200
 Eagan, MN 55121
 866-387-3343

1.4. Emergency telephone number

Emergency number : 800) 373-6729
 CHEMTREC (800) 424-9300
 CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquid 3
 Skin irritation 2
 Serious eye damage 1
 Carcinogenicity 2
 Specific target organ toxicity - Single exposure 3
 Aspiration hazard 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

GHS07

GHS08

GHS02

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US) :

Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Other hazards

No additional information available

3.1 Substance
FVP FUEL INJECTOR CLEANER

Not applicable
Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

3.2. Mixture Safety Data Sheet

Name	Product Identifier	%	GHS-US classification
Kerosene, petroleum	(CAS No) 8008-20-6	30 - 60	Flam. Liq. 3 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
Isopropyl alcohol	(CAS No) 67-63-0	15 - 40	Flam. Liq. 2 Eye Irrit. 2A STOT SE 3
Solvent naphtha, petroleum, light aromatic	(CAS No) 64742-95-6	7 - 13	Asp. Tox. 1
Alkylphenol polyoxyalkyl alkylamine	Proprietary	7 - 13	Eye Dam. 1
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Benzene, 1,2,4-trimethyl-	(CAS No) 95-63-6	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3
1,3,5-Trimethylbenzene	(CAS No) 108-67-8	1 - 5	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A STOT SE 3 Asp. Tox. 1
n-Propylbenzene	(CAS No) 103-65-1	1 - 5	Flam. Liq. 3 STOT SE 3 Asp. Tox. 1
Cumene	(CAS No) 98-82-8	0.1 - 1	Flam. Liq. 3 Acute Tox. 4 (Oral) Carc. 2
Naphthalene	(CAS No) 91-20-3	0.1 - 1	Acute Tox. 4 (Oral, Dermal) Carc. 2

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: f inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: n case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: n case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
First-aid measures after ingestion	: f swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Powder, water spray, foam, carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

FVP FUEL INJECTOR CLEANER

Fire hazard

Products of combustion may include, and are not limited to: oxides of carbon.

5.2 Advice for firefighters

Protection during firefighting

Keep upwind of fire! Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

FVP FUEL INJECTOR CLEANER

SECTION 6: Accidental release measures

Safety Data Sheet

Safe handling, personal precautions, protective equipment and emergency procedures according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid breathing gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. Keep cool. Keep away from heat, sparks, and flame.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Kerosene, petroleum (8008-20-6)

USA ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
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Isopropyl alcohol (67-63-0)

USA ACGIH	ACGIH TWA (ppm)	200 ppm
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USA ACGIH	ACGIH STEL (ppm)	400 ppm
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USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
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USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
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Solvent naphtha, petroleum, light aromatic (64742-95-6)

USA ACGIH	ACGIH TWA	Not applicable.
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USA OSHA	OSHA PEL (TWA)	Not applicable.
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Alkylphenol polyoxyalkyl alkylamine (Proprietary)

USA ACGIH	ACGIH TWA	Not applicable.
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USA OSHA	OSHA PEL (TWA)	Not applicable.
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Xylenes (o-, m-, p- isomers) (1330-20-7)

USA ACGIH	ACGIH TWA (ppm)	100 ppm
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USA ACGIH	ACGIH STEL (ppm)	150 ppm
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USA OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
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USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
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Benzene, 1,2,4-trimethyl- (95-63-6)

USA ACGIH	ACGIH TWA (ppm)	25 ppm
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FVR FUEL INJECTOR CLEANER <small>1,3,5-Trimethylbenzene (108-67-8)</small>		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

FVP FUEL INJECTOR CLEANER

n-Propylbenzene (103-65-1)

USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Cumene (98-82-8)

USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

Naphthalene (91-20-3)

USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Clear.
Colour	: No data available.
Odour	: Petroleum odor.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: - 26 °C (~ 78 °F)
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: 0.811 - 0.823
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.

EVP FUEL INJECTOR CLEANER

Explosive properties : no data available.

Oxidising properties : no data available.

Explosive limits : no data available.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

9.2. Other information

No additional information available

Subject to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2412

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

Kerosene, petroleum (8008-20-6)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h

Isopropyl alcohol (67-63-0)

LD50 oral rat	4396 mg/kg
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	72.6 mg/l/4h

Solvent naphtha, petroleum, light aromatic (64742-95-6)

LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Xylenes (o-, m-, p- isomers) (1330-20-7)

LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat (ppm)	5000 ppm/4h
LC50 inhalation rat (mg/l)	47635 mg/l/4h

Benzene, 1,2,4-trimethyl- (95-63-6)

LD50 oral rat	3400 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	18 g/m ³ /4h

1,3,5-Trimethylbenzene (108-67-8)

LC50 inhalation rat (mg/l)	24 g/m ³ /4 h
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n-Propylbenzene (103-65-1)

		6040 mg/kg
FVP FUEL INJECTOR CLEANER		
LD50 oral rat		
LC50 inhalation rat (ppm)	65000 ppm/2h	
Safety Data Sheet		
Cumene (98-82-8) Hazard Communication Standard (CFR29 1910.1200) HazCom 2012		
LD50 oral rat	1400 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg	
LC50 inhalation rat (mg/m ³)	39000 mg/m ³ /4 h	

Naphthalene (91-20-3)	
FVP FUEL INJECTOR CLEANER	490 mg/kg
LD50 oral rat	> 20 g/kg
LD50 dermal rabbit	> 20 g/kg
Safety Data Sheet	
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Suspected of causing cancer.

Isopropyl alcohol (67-63-0)	
IARC group	3

Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3

Cumene (98-82-8)	
IARC group	2B
National Toxicity Program (NTP) Status	1

Naphthalene (91-20-3)	
IARC group	2B
National Toxicity Program (NTP) Status	1, 3

Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

2412	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

2412	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with DOT

14.1. FVP FUEL INJECTOR CLEANER

UN Safety Data Sheet

: JN1993

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

Flammable liquids, n.o.s. (Petroleum, Isopropanol)

Department of Transportation Hazard Classes : 3

Hazard labels :
According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012



Packing group (DOT) : II

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

Kerosene, petroleum (8008-20-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Isopropyl alcohol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 1.0 %

Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Xylenes (o-, m-, p- isomers) (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

Benzene, 1,2,4-trimethyl- (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

1,3,5-Trimethylbenzene (108-67-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

n-Propylbenzene (103-65-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cumene (98-82-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 1.0 %

Naphthalene (91-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 0.1 %

15.2. US State regulations

2412

State of local regulations

FVP FUEL INJECTOR CLEANER

known to the State of California to cause cancer.

This product
contains
chemicals

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

FVP FUEL INJECTOR CLEANER

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

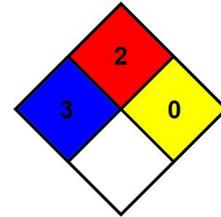
Safety Data Sheet

IARC <small>International Agency for Research on Cancer. according to the Hazard Communication Standard (29 CFR 1910.1201) HazCom 2012</small>	International Agency for Research on Cancer. 1 - Carcinogenic to humans; 2A - Probably carcinogenic to humans; 2B - Possibly carcinogenic to humans; 3 - Not classifiable; 4 - Probably not carcinogenic to humans.
NTP	National Toxicology Program. 1 - Evidence of Carcinogenicity; 2 - Known Human Carcinogens; 3 - Reasonably anticipated to be Human Carcinogen; 4 - Substances delisted from report on Carcinogens; 5 - Twelfth Report - Items under consideration.

SECTION 16: Other information

Indication of changes : None.
Date of issue : 04/30/2014
Other information : None.

IFPA health hazard : 3
IFPA fire hazard : 2
IFPA reactivity : 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product