

Safety Data Sheet

according to the Hazard Communication Standard (CFR291910.1200) HazCom 2012 Date of issue: 12/31/2014 Revision date: 12/31/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking : FVP FUEL INJECTOR CLEANER Product name Product code : 2112 Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Fuel System cleaner. 1.3. Details of the supplier of the safety data sheet Factory Motor parts 1380 Corporate Cente Curve, #200 Eagan, MN 55121 866-387-3343 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 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) Hazard statements (GHS-US)

Precautionary statements (GHS-US)

GHS02 GHS07 GHS08

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

: 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 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.

SECTION 3: Composition/information on ingredients				
3.1.	Substance			
Not applicable				
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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	Propriatary	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	: If 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	: In 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	: In 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.		



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4.2.	Most important symptoms and effects	s, both acute and delayed
Sympto	ms/injuries after inhalation	May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Sympto	ms/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 lung cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.		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 a	ttention 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).

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Powder, water spray, foam, carbon dioxide.
Unsuita	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the s	ubstance or mixture
Fire ha	zard	: 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.	6.1. Personal precautions, protective equipment and emergency procedures		
Genera	l 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 cor	ntainment 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.			

SECTIO	ON 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 r	neasures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2.	Conditions for safe storage, includin	g 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/m³) 200 mg/m³		200 mg/m ³		
Polyolefin alkyl phenol alkyl amine (Propriatary)				
ACGIH	Not applicable			
OSHA	Not applicable			



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Benzene, 1,2,4-trimet				
ACGIH	Not applicable			
OSHA	Not applicable	Not applicable		
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/m³		
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/m³)	435 mg/m³		
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/m³)	240 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm		
Acetaldehyde (75-07-				
USA OSHA	OSHA PEL (TWA) (mg/m³)	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.

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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 bygiene and safety practices.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Liquid Appearance : Clear Color : Amber Odor : Petroleum odor Odor threshold : No data available pН No data available · Relative evaporation rate (butylacetate=1) : No data available Melting point No data available Freezing point : No data available : No data available Boiling point Flash point : 22 °C (71 °F) Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) : Flammable : No data available Vapor pressure Relative vapor density at 20 °C No data available Relative density : 0.864 - 0.869 Solubility No data available Log Pow : No data available : No data available Log Kow 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

SECTI	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
No dang	erous reaction known under conditions of normal use.		
10.2.	Chemical stability		
Stable ur	nder normal storage conditions. May form flammable/explosive vapor-air mixture.		
10.3.	Possibility of hazardous reactions		
No dang	erous reaction known under conditions of normal use.		
10.4.	Conditions to avoid		
Heat. Inc	compatible materials. Open flame.		
10.5.	Incompatible materials		
Strong or	xidizing agents.		
10.6.	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 to	xicity : Not classified.		

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2112	
LD50 oral rat	> 2000 mg/kg
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 LD50 dermal rabbit	3280 mg/kg > 3160 mg/kg
LC50 inhalation rat	18 g/m ³ /4h
Naphthalene (91-20-3) LD50 oral rat	490 mg/kg
LD50 dermal rabbit	> 20 g/kg
Cumene (98-82-8)	33
LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	>3160 mg/kg
LC50 inhalation rat	39000 mg/m ³ /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
kin 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.
Serm cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Suspected of causing cancer.
Naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
Cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
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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 in accordance with all local, state, provincial, and federal Waste disposal recommendations regulations. The generation of waste should be avoided or minimized wherever possible. Additional information : Handle empty containers with care because residual vapors are flammable.



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SECTION 14: Transport information	
In accordance with DOT	
UN-No.(DOT)	: UN1993
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)	: 11
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)				
isted 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		icates 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	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				
EPA TSCA Regulatory Flag		- T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
SARA Section 302 Threshold Planning Quantity (TPQ) 1	10000		
SARA Section 313 - Emission Reporting 0.1 %		0.1 %		

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Acetaldehyde (75-07-0)		
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 %	
15.2. US State regulations 2112		

Indication of changes	: None.	
Date of issue	: 12/31/2014	
Other information	: None.	
NFPA health hazard	: 2	
NFPA fire hazard	: 3	
NFPA reactivity	: 0	2 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.





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Date of issue: 07/24/2014

	Revision date: 07/24/2014 Version: 1.0
SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product name CAS No	: FVP INTAKE VALVE DEPOSIT CLEANER : 2312
	ance or mixture and uses advised against
Use of the substance/mixture	: Fuel System cleaner.
1.3. Details of the supplier of the safety d	-
The Penray Companies, Inc. 440 Denniston Ct. Wheeling, IL 60090 T (800) 373-6729 <u>rotto@penray.com</u>	
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 miz	xture
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 Aspiration hazard 1	2
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)

- GHS02 GHS07 GHS08
- : Danger
- : 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.
- : 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.

2.3. Other hazards

No additional information available



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SECTION 3: Composition/information on ingredients

Substance 3.1.

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	: If 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	In 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	: In 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	: If 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.			



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: Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression.
May cause respiratory tract irritation.
 Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
 May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
: 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.

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

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).

SECT	ON 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.	.2. Special hazards arising from the substance or mixture				
Fire haz	ard	: Products of combustion may include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.			
5.3.	Advice for firefighters				
Protectio	on 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.			
SECT	ON 6: Accidental release measu	ires			
6.1.	Personal precautions, protective equi	pment 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.	6.2. Methods and material for containment and cleaning up				
For cont	ainment	: 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	s for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.			
6.3.	Reference to other sections				
See sec	tion 8 for further information on protective	clothing and equipment and section 13 for advice on waste disposal.			
SECT	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precauti	ions 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 ava	lot 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	OSHA PEL (TWA) (mg/m³)	435 mg/m³	



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Xylenes (o-, m-, p- is			
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	
Ethylbenzene (100-47	1-4)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m³	
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, pet	roleum, light aromatic (64742-95-6)		
USA ACGIH	ACGIH TWA	Not applicable.	
USA OSHA	OSHA PEL (TWA)	Not applicable.	
Cumene (98-82-8)	1		
USA ACGIH	ACGIH TWA (ppm)	50 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	245 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm	
D (74.40.0)			
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 (TWA) (ppm)		
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm 25 ppm	
034 03114		25 ppm	
Naphthalene (91-20-3	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/m³	
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/m³	
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/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm	



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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.
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

ocorrow 5. r nysical and chemica	
9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid.
Appearance	: Clear.
Color	: Amber.
Odor	: Petroleum odor.
Odor threshold	: No data available.
рН	: 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.

Other information 9.2.

No additional information available

SECTI	ON 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.		



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

29 1910.1200) HazCom 2012.
bon, aldehydes, hydrocarbons.
ion
: Harmful in contact with skin or if inhaled.
> 2000 mg/kg
>1000 but ≤2000 mg/kg
>10.0 but ≤20.0 mg/l/4h (Calculated using ATE values)
4300 mg/kg
> 1700 mg/kg
5000 ppm/4 h
2500 malka
3500 mg/kg
15354 mg/kg
17.2 mg/l/4h
> 5000 mg/kg
12124 mg/kg
8390 mg/kg
28.1 mg/l/4h
64742-95-6)
8400 mg/kg
> 2000 mg/kg
3400 ppm/4h
> 5.2 mg/l/4h
1400 malka
1400 mg/kg > 3160 mg/kg
39000 mg/m ³ /4 h
39000 mg/m /4 m
930 mg/kg
> 9.4 mL/kg
13050 - 14380 ppm/4h
490 mg/kg
> 20 g/kg
>340 mg/m ³ /4 h
2200 ppm/(1b
3398 ppm/1h
520 mg/kg
1244 mg/kg
4000 ppm/4h
4000 ppm/4h
4000 ppm/4h 1930 mg/kg



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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.

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.	
	lay 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.	

SECTIO	ON 12: Ecological information	
12.1.	Toxicity	
Ecology -	general :	May cause long-term adverse effects in the aquatic environment.
12.2.	Persistence and degradability	
2312		
Persistence and degradability N		Not established.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

12.3. Bioaccumulative potential	
2312	
Bioaccumulative potential	Not established.
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 consideration	IS
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	: 11
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 %	
Ethylbenzene (100-41-4)		
Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 313 - Emission Reporting	0.1 %	
Toluene (108-88-3)		
Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 313 - Emission Reporting	1.0 %	
Cumene (98-82-8)		
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 %	



Safety Data Sheet

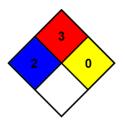
according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Benzene (71-43-2)		
Listed on SARA Section 313 (Specific toxic chemical listi	ings)	
SARA Section 313 - Emission Reporting	0.1 %	
Naphthalene (91-20-3)		
Listed on SARA Section 313 (Specific toxic chemical listi	ings)	
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 listi Listed on SARA Section 313 (Specific toxic chemical listi		
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 listi	ings)	
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.

SECTION 16: Other information Indication of changes : None. Date of issue : 07/24/2014 Other information : None. NFPA health hazard 2 : NFPA fire hazard : 3 NFPA 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

