

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) 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

1.1. Product identifier

Product name : PENRAY 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

The Penray Companies, Inc. 440 Denniston Ct. Wheeling, IL 60090 T (800) 373-6729 rotto@penray.com

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 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)



 $\langle ! \rangle$



GHS02

GHS07

GHS08

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 hea

: 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.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

12/31/2014 EN (English) Page 1



Safety Data Sheet

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

3.2. **Mixture**

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

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.

12/31/2014 EN (English) 2/9



Safety Data Sheet

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

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

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.

 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.

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

Symptoms/injuries after eye contact

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

protection (SCBA). Vapors may be neavier 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/m³)	200 mg/m³

	Polyolefin alkyl phenol alkyl amine (Propriatary)	
	ACGIH	Not applicable
ı	OSHA	Not applicable

12/31/2014 EN (English) 3/9



Safety Data Sheet

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

Benzene, 1,2,4-trimet	thyl- (95-63-6)			
ACGIH	Not applicable			
OSHA	Not applicable	Not applicable		
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/m³)	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/m³)	245 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm		
Ethylbenzene (100-41	1.4)	<u> </u>		
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		
Dayrana (74, 42, 0)	30	''		
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		
	3, (1)			
Furan (110-00-9) ACGIH	Not applicable			
OSHA	Not applicable			
Propylene oxide (75-	,	0.000		
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/m³		
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.

12/31/2014 EN (English) 4/9



Safety Data Sheet

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

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 На : 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** : 22 °C (71 °F) Flash point 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 : 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

Acute toxicity : Not classified.

12/31/2014 EN (English) 5/9



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

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	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 dranat LD50 dermal rabbit	>3160 mg/kg
LC50 inhalation rat	39000 mg/m³/4h
	COOCO IIIgiii / Fiii
Ethylbenzene (100-41-4) LD50 oral rat	2500 malka
LD50 dermal rabbit	3500 mg/kg
LC50 inhalation rat	15354 mg/kg 17.2 mg/l/4h
	17.2 mg//4n
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.
	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	
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)	
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

EN (English) 12/31/2014 6/9



Safety Data Sheet

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

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

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.

12/31/2014 EN (English) 7/9



Safety Data Sheet

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

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

Hazard labels (DOT) :



Packing group (DOT) : II

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 - indic	cates 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 - indic	cates 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)		00
SARA Section 313 - Emission Reporting		.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)		0000
SARA Section 313 - Emission Reporting		.1 %

12/31/2014 EN (English) 8/9



Safety Data Sheet

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

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

12/31/2014

2112	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

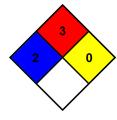
SECTION 16: Other information

Indication of changes : None.

Date of issue : 12/31/2014

Other information : None.

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



9/9

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.



EN (English)



Safety Data Sheet

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

Date of issue: 07/24/2014 Revision date: 07/24/2014 Version: 1.0

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

1.1. Product identifier

Product name : PENRAY 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

The Penray Companies, Inc. 440 Denniston Ct. Wheeling, IL 60090 T (800) 373-6729 rotto@penray.com

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 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)



<u>(!)</u>



CHEUS

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.

2.3. Other hazards

No additional information available

07/24/2014 EN (English) Page 1



Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

3.1. Substance

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.

07/24/2014 EN (English) 2/9



Safety Data Sheet

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

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

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.

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	OSHA PEL (TWA) (mg/m³)	435 mg/m³

07/24/2014 EN (English) 3/9



Safety Data Sheet according to the Hazard Commun

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

Xylenes (o-, m-, p- isomers) (1330-20-7)			
USA OSHA	OSHA PEL (TWA) (ppm)	100 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)	1	'	
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	
O-b			
USA ACGIH	roleum, light aromatic (64742-95-6) ACGIH TWA	Not applicable.	
USA OSHA			
USA OSHA	OSHA PEL (TWA)	Not applicable.	
Cumene (98-82-8)			
USA ACGIH	ACGIH TWA (ppm)	50 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	245 mg/m³	
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	1	'	
USA ACGIH	ACGIH TWA (ppm)	10 ppm	
USA ACGIH	ACGIH STEL (ppm)	15 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
F (440.00.0)			
Furan (110-00-9) USA ACGIH	ACGIH TWA	Not applicable.	
USA OSHA	OSHA PEL (TWA)	Not applicable.	
	<u> </u>		
Propylene oxide (75- USA ACGIH	ACGIH TWA (ppm)	2 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³	
USA OSHA	OSHA PEL (TWA) (IIIg/III ^e) OSHA PEL (TWA) (ppm)	100 ppm	
		100 pp	
Acetaldehyde (75-07-			
USA ACGIH	ACGIH Ceiling (ppm)	25 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	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

9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Appearance : Clear.
Color : Amber.

Odor Petroleum odor. Odor threshold No data available. Hq 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 ~ 22 °C (~ 71 °F) Flash point 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 No data available. 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.





Safety Data Sheet

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

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/m³/4 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)	
LD50 oral rat	1930 mg/kg
LC50 inhalation rat	13300 ppm/4h

07/24/2014 EN (English) 6/9



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.

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	
lational 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,	

SECTION 12: Ecological information

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

12.2. Persistence and degradability

Symptoms/injuries after eye contact

Symptoms/injuries after ingestion

1 di		
2312		
Persistence and degradability	Not established.	

drying, defatting and cracking of the skin.

production, with possible redness and swelling.

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

: 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.

07/24/2014 EN (English) 7/9



Safety Data Sheet

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

12.3. E	Bioaccumu	lative r	ootential
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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 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)

3

Department of Transportation Hazard Classes

Hazard labels



Packing group : 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

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 %

07/24/2014 EN (English) 8/9



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 listings)			
SARA Section 313 - Emission Reporting	0.1 %		
Naphthalene (91-20-3)			
Listed on SARA Section 313 (Specific toxic chemical list	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 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)			

15.2. US State regulations

07/24/2014

EPA TSCA Regulatory Flag

2312	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
	defects of other reproductive narm.

0.1 %

SECTION 16: Other information

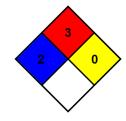
SARA Section 313 - Emission Reporting

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



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



according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/30/2014 Revision date: 04/30/2014 Version: 1.0

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

Product identifier

: PENRAY MOTOR PEP Product name

Product code : 3016

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

Use of the substance/mixture : Tune-up Treatment.

Details of the supplier of the safety data sheet

The Penray Companies, Inc. 440 Denniston Ct. 60090 Wheeling, IL T (800) 373-6729 rotto@penray.com

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

Classification of the substance or mixture

GHS-US classification

Flammable Liquid 4 Reproductive Toxicity 1B Aspiration Toxicity 1

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Danger

Hazard statements (GHS-US) Combustible liquid. May damage fertility or the unborn child. May be fatal if swallowed and enters

airways.

Precautionary statements (GHS-US) Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/

protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice/attention. 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.

Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

Substance

Not applicable.

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Distillates, petroleum, hydrotreated light naphthenic	(CAS No) 64742-53-6	35 - 65	Not classified
Distillates, petroleum, solvent-refined heavy paraffinic (CAS No) 64741-88-4 30 - 60 Not classified		Not classified	
Phenol, (tetrapropenyl) derivatives	(CAS No) 74499-35-7	0.1 - 1	Skin Irrit. 2 Eye Irrit. 2A Repr. 2
Phenol, (tetrapropenyl) derivatives, calcium salts (CAS No) 132752-19-3 0. 1-1 Repr. 1B			
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

Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

04/30/2014 EN (English) Page 1



Safety Data Sheet

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

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.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to First-aid measures after eve contact

do, remove contact lenses, if worn. If irritation persists, get medical attention.

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything First-aid measures after ingestion

by mouth to an unconscious person. Rinse mouth. Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Symptoms/injuries after skin contact

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.

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

Extinguishing media

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

Special hazards arising from the substance or mixture

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

Advice for firefighters 5.3.

Protection during firefighting : Keep upwind of fire, Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

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.

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.

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

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/vapours/spray. Do not swallow. Handle and open container with care. Use 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.

Conditions for safe storage, including any incompatibilities

: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Storage conditions

Store locked up. Keep cool. Keep away from heat, sparks, and flame.

Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

Control parameters

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³

04/30/2014 EN (English) 2/6



Safety Data Sheet

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

Phenol, (tetrapropenyl) derivatives (74499-35-7)			
USA ACGIH	ACGIH TWA	Not applicable.	
USA OSHA	OSHA PEL	Not applicable.	

Phenol, (tetrapropenyl) derivatives, calcium salts (132752-19-3)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL	Not applicable.

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 : In case of insufficient ventilation, wear suitable respiratory equipment. 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.AppearanceClear.Colour: Amber.

Petroleum odor. Odour Odour threshold No data available. : No data available. pΗ Relative evaporation rate (butylacetate=1) : No data available. : No data available. Melting point Freezing point No data available. : No data available. **Boiling point** : ~ 92.2 °C (~ 198 °F) Flash point No data available. Self ignition temperature 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 0.867 - 0.877 Solubility No data available.

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.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.





Safety Data Sheet

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

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

3016		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat	Not available.	

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h

Ethylene glycol (107-21-1)	
LD50 oral rat	4000 mg/kg
LD50 dermal rabbit	9530 μL/kg

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

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

Reproductive toxicity : May damage fertility or 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) : 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 irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, 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

3016	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential Not established.

12.4. Mobility in soil

3016

Ecology - soil No additional information available.

12.5. Other adverse effects

Other adverse effects : No additional information available.

04/30/2014 EN (English) 4/6



Safety Data Sheet

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimised wherever possible.

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

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

DOT UN-No. : NA1993

14.2. UN proper shipping name

Proper Shipping Name : Combustible liquid, n.o.s. (Petroleum distillates)

Department of Transportation Hazard Classes : Combustible liquid

Packing group (DOT) : III

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

Ethylene glycol (107-21-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
EPA TSCA Regulatory Flag	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
SARA Section 313 - Emission Reporting	1.0 %

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

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

Phenol, (tetrapropenyl) derivatives (74499-35-7)

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

Phenol, (tetrapropenyl) derivatives, calcium salts (132752-19-3)

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

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

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

15.2. US State regulations

3016	
State or local regulations	This product does not contain a chemical known to the State of California to cause
	cancer, birth defects or other reproductive harm.

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

IARC	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.



Safety Data Sheet

NFPA fire hazard

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

SECTION 16: Other information

Indication of changes : None.

Date of issue : 04/30/2014

Other information : None.

NFPA health hazard : 1 - Exposure could cause irritation but only minor

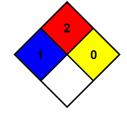
residual injury even if no treatment is given.

2 - Must be moderately heated or exposed to relatively

high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure

conditions, and are not reactive with water.



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

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