

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

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

Product identifier

: PENRAY TOTAL DIESEL FUEL SYSTEM CLEANER Product name

Product code 105032

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

Use of the substance/mixture : Asphaltene Dispersant.

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

Emergency telephone number 1.4.

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 2 Acute toxicity 4 (Inhalation) Skin irritation 2 Reproductive toxicity 2 (developmental) Specific target organ toxicity - Single exposure 3 Specific target organ toxicity - Repeated exposure 2 Aspiration hazard 1

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS02





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. 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. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Other hazards

No additional information available

Precautionary statements (GHS-US)

Unknown acute toxicity (GHS-US)

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

SECTION 3: Composition/information on ingredients

Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	GHS-US classification
Toluene	(CAS No) 108-88-3	60 - 100	Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	7 - 13	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives	(CAS No) 84605-20-9	3 - 7	Flam. Liq. 4 Eye Irrit. 2A
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	1 - 5	Flam. Liq. 3 Asp. Tox. 1
2-Butoxyethanol	(CAS No) 111-76-2	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Oral, Dermal, Inhalation) Skin Irrit. 2 Eye Irrit. 2A
2-Ethylhexyl nitrate	(CAS No) 27247-96-7	1 - 5	Flam. Liq. 4 Acute Tox. 4 (Inhalation)
Kerosene, petroleum, hydrodesulfurized	(CAS No) 64742-81-0	1 - 5	Asp. Tox. 1
The exact percentage (concentration) of composition has been	withheld as a trade secret in accord	dance 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.

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 : 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 and 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.

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6.2. Methods and material for containment and cleaning up

For containment

: Dike and contain spill. 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 wellventilated 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

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

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
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

2-Butoxyethanol (111-76-2)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

Kerosene, petroleum, hydrodesulfurized (64742-81-0)		
USA ACGIH	ACGIH TWA (mg/m³)	200 mg/m³

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.

Eve 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Amber.

Odour
Odour : Petroleum odor.
Odour threshold : No data available.
pH : No data available.
Relative evaporation rate (butylacetate=1) : No data available.
Melting point : No data available.
Freezing point : No data available.

Boiling point : \sim 111 °C (\sim 232 °F) (Toluene) Flash point : \sim 4.4 °C (\sim 40 °F) (Toluene)

: No data available. Self ignition temperature Decomposition temperature No data available. : Flammable. Flammability (solid, gas) Vapour pressure : No data available. : No data available. Relative vapour density at 20 °C Relative density No data available. No data available. Solubility 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. : No data available. Oxidising properties **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 vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

10.5. Incompatible materials

Acids. Bases. Oxidizers.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

105032	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	~ 19.7 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 (mg/l)	28.1 mg/l/4h

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg



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No additional information available

ccording to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.		
Xylenes (o-, m-, p- isomers) (1330-20-7)		
LD50 dermal rabbit	> 1700 mg/kg	
LC50 inhalation rat (ppm)	5000 ppm/4h	
LC50 inhalation rat (mg/l)	47635 mg/l/4h	
Solvent naphtha, petroleum, heavy aromatic	(64742-94-5)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000mg/kg	
2-Butoxyethanol (111-76-2)		
LD50 oral rat	470 mg/kg	
LC50 inhalation rat (ppm)	450 ppm/4h	
	1 can blance in	
2-Ethylhexyl nitrate (27247-96-7)	. 2000 mallia	
LD50 oral rat LD50 dermal rabbit	> 2000 mg/kg > 4820 mg/kg	
LC50 inhalation rat (mg/l)	> 14 mg/l/4h	
Kerosene, petroleum, hydrodesulfurized (647	·	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.	
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.	
Carcinogenicity	: Based on available data, the classification criteria are not met.	
Toluene (108-88-3)		
IARC group	3	
V I (1) (4000 00 T)		
Xvienes (o-, m-, p- isomers) (1330-20-7)		
Xylenes (o-, m-, p- isomers) (1330-20-7) IARC group	3	
IARC group	3	
IARC group 2-Butoxyethanol (111-76-2)		
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IARC group 2-Butoxyethanol (111-76-2) IARC group National Toxicity Program (NTP) Status	3 1	
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IARC group 2-Butoxyethanol (111-76-2) IARC group National Toxicity Program (NTP) Status Reproductive toxicity Specific target organ toxicity (single exposure)	3 1 : Suspected of damaging the unborn child. : May cause drowsiness or dizziness.	
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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

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

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. : UN1993

14.2. UN proper shipping name

Proper Shipping Name : Flammable liquids, n.o.s. (Toluene, Xylene)

Department of Transportation Hazard Classes : 3

Hazard labels

3

Packing group (DOT) : II

14.3. Additional information

Other information : No supplementary information available.

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

SECTION 15: Regulatory information

15.1. US Federal regulations

Toluene (108-88-3)

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

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 9

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

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

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives (84605-20-9)

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

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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

2-Butoxyethanol (111-76-2)

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

2-Ethylhexyl nitrate (27247-96-7)

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

Kerosene, petroleum, hydrodesulfurized (64742-81-0)

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

15.2. US State regulations

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State or local regulations

This product contains chemicals 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.



Safety Data Sheet

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

IARC	International Agency for Research on Cancer.
NTP	National Toxicology Program.
	 1 - Evidence of Carcinogenicity; 2 - Known Human Carcinogens; 3 - Reasonably anticipated to be Human Carcinogen; 4 - Substances delisted from report on Carcinogens; 5 - Twelfth Report - Items under consideration.

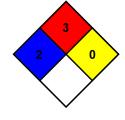
SECTION 16: Other information

Indication of changes : None.

Date of issue : 04/04/2014

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

EN (English)

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