

Safety Data Sheet

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

	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
1.1. Product identifier	
Product name	: PENRAY WINTER BLEND - DIESEL FUEL TREATMENT
Product code	: 203055
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Use of the substance/mixture	: Winter blend diesel fuel treatment.
1.3. Details of the supplier of t	ne safety data sheet
The Penray Companies, Inc. 440 Denniston Ct. 60090 Wheeling, IL T (800) 373-6729 rotto@penray.com	
1.4. Emergency telephone nun	ıber
Emergency number	: (800) 373-6729 CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr
SECTION 2: Hazards identifie	cation
2.1. Classification of the subst	ance or mixture
GHS-US classification	
Flammable Liquid 2 Acute toxicity 4 (Inhalation) Skin irritation 2 Eye irritation 2A Carcinogenicity 2 Reproductive toxicity 2 Specific target organ toxicity - Single e Specific target organ toxicity - Repeate Aspiration hazard 1	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	HS02 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or 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.
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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: 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. Keep container tightly closed. 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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2.4. Unknown acute toxicity (GHS-US)

26 % of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Name	Product identifier	%	GHS-US classification
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	10 - 30	Flam. Liq. 3 Asp. Tox. 1
Toluene	(CAS No) 108-88-3	10 - 30	Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1
Solvent naphtha, petroleum, light aromatic	(CAS No) 64742-95-6	5 - 10	Asp. Tox. 1
Pseudocumene	(CAS No) 95-63-6	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3
2-Butoxyethanol	(CAS No) 111-76-2	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Oral, Dermal, Inhalation) Skin Irrit. 2 Eye Irrit. 2A
Naphthalene	(CAS No) 91-20-3	1 - 5	Acute Tox. 4 (Oral, Dermal) Carc. 2
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	1 - 5	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Methylxylene	(CAS No) 25551-13-7	1 - 5	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A STOT SE 3
Diethylene glycol monomethyl ether	(CAS No) 111-77-3	0.5 - 1.5	Flam. Liq. 4 Eye Irrit. 2A Repr. 2
Phenylethane	(CAS No) 100-41-4	0.1 - 1	Flam. Liq. 2 Acute Tox. 4 (Inhalation) Carc. 2
Vinyl acetate	(CAS No) 108-05-4	0.1 - 1	Carc. 2
Cumene	(CAS No) 98-82-8	0.1 - 1	Flam. Liq. 3 Acute Tox. 4 (Oral) Carc. 2

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

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures after inhalation	: 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 ef	fects, 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	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
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 medi	cal 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).



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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Treat for surrounding material.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the su	Ibstance or mixture
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.
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). Use water spray to keep fire-exposed containers cool.
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective ed	quipment 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 containm	ent 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	ve 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 c	onditions		:	Keep out of the reach of child

: 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
Pseudocumene (95-6	3-6)	
USA ACGIH	ACGIH TWA (ppm)	25 ppm
2-Butoxyethanol (111	-76-2)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
Naphthalene (91-20-3)	
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm



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Xylenes (o-, m-, p- isomers) (13	30-20-7)			
USA ACGIH A	CGIH TWA (ppm)	100 ppm		
USA ACGIH A	CGIH STEL (ppm)	150 ppm		
USA OSHA C	SHA PEL (TWA) (mg/m³)	435 mg/m ³		
USA OSHA C	SHA PEL (TWA) (ppm)	100 ppm		
Methylxylene (25551-13-7)				
USA ACGIH A	CGIH TWA (ppm)	25 ppm		
USA OSHA C	SHA PEL (TWA) (mg/m³)	125 mg/m³		
USA OSHA C	SHA PEL (TWA) (ppm)	25 ppm		
Phenylethane (100-41-4)				
	CGIH TWA (ppm)	20 ppm		
	SHA PEL (TWA) (mg/m ³)	435 mg/m ³		
	SHA PEL (TWA) (ppm)	100 ppm		
Vinyl acetate (108-05-4)				
USA ACGIH A	CGIH TWA (ppm)	10 ppm		
USA ACGIH A	CGIH STEL (ppm)	15 ppm		
Cumene (98-82-8)				
USA ACGIH A	CGIH TWA (ppm)	50 ppm		
USA OSHA C	SHA PEL (TWA) (mg/m³)	245 mg/m ³		
USA OSHA C	SHA PEL (TWA) (ppm)	50 ppm		
8.2. Exposure controls				
Appropriate engineering controls	: Use ventilation adequate to ker recommended exposure limits	eep exposures (airborne levels of dust, fume, vapor, etc.) below s.		
Personal protective equipment	: Avoid all unnecessary exposu	ıre.		
Hand protection	: Wear chemically resistant pro	tective gloves.		
Eye protection		recommended when using product.		
Skin and body protection	: Wear suitable protective cloth	0		
Respiratory protection	exposure limits may be excee	is recommended in poorly ventilated areas or when permissible ded. Respirator selection must be based on known or anticipated of the product and the safe working limits of the selected respirator.		
Environmental exposure controls	: Maintain levels below Commu	: Maintain levels below Community environmental protection thresholds.		
Other information		ere material is handled, processed or stored. Wash hands carefully dle according to established industrial hygiene and safety practices.		
SECTION 9: Physical and	chemical properties			
9.1. Information on basic pl	ysical and chemical properties			
Physical state	: Liquid			
Colour	: Amber.			
Odour	: Petroleum odor.			
Odour threshold	: No data available.			
pH	: No data available.			
Relative evaporation rate (butylace	,			
Melting point	: No data available.			
Freezing point	: No data available.			

Boiling point

Flash point

Vapour pressure

Relative density

Self ignition temperature

Decomposition temperature Flammability (solid, gas)

Relative vapour density at 20 °C

EN (English)

: 0.885 - 0.905

No data available.
 ~ 12 °C (~ 54 °F)

No data available.No data available.

: No data available.

: No data available.

: Flammable.



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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 10.1. Reactivity No dangerous reaction known under conditions of normal use. 10.2. 10.2. Chemical stability Stable under normal storage conditions. May form flammable/explosive vapour-air mixture. 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1.	Information on toxicological effects	

Acute toxicity	: Harmful if inhaled.
203055	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	~ 10.2 mg/l/4h
Solvent naphtha, petroleum, heavy	romatic (64742-94-5)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000mg/kg
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
Solvent naphtha, petroleum, light ar	omatic (64742-95-6)
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h
Pseudocumene (95-63-6)	
LD50 oral rat	3400 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	18 g/m³/4h
2-Butoxyethanol (111-76-2)	
LD50 oral rat	470 mg/kg
LC50 inhalation rat (ppm)	450 ppm/4h
Naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rabbit	> 20 g/kg



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Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat (ppm)	5000 ppm/4h
LC50 inhalation rat (mg/l)	47635 mg/l/4h
Methylxylene (25551-13-7)	
LD50 oral rat	8970 mg/kg
Diethylene glycol monomethyl ether (111-77-	3)
LD50 oral rat	7128 mg/kg
LD50 dermal rabbit	9404 mg/kg
	5 TOT ING/NG
Phenylethane (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15354 mg/kg
LC50 inhalation rat (mg/l)	17.2 mg/l/4h
Vinyl acetate (108-05-4)	
LD50 oral rat	2920 mg/kg
LD50 dermal rabbit	2320 mg/kg
LC50 inhalation rat (mg/l)	11400 mg/m³/4h
Cumene (98-82-8)	
LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	39000 mg/m ³ /4 h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye 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.
Toluene (108-88-3)	
IARC group	3
	·
2-Butoxyethanol (111-76-2)	
IARC group	3
National Toxicity Program (NTP) Status	1
Naphthalene (91-20-3)	
IARC group	2B
National Toxicity Program (NTP) Status	1, 3
Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3
Phenylethane (100-41-4)	
IARC group	2B
National Toxicity Program (NTP) Status	1
Vinyl acetate (108-05-4)	
IARC group	2B
Cumene (98-82-8)	
ouniche (30-02-0)	2B
IARC group	
IARC group	
National Toxicity Program (NTP) Status	1
National Toxicity Program (NTP) Status Reproductive toxicity	1 : Suspected of damaging fertility or the unborn child.
National Toxicity Program (NTP) Status Reproductive toxicity Specific target organ toxicity (single exposure)	1 : Suspected of damaging fertility or the unborn child. : May cause drowsiness or dizziness.
National Toxicity Program (NTP) Status Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	1 : Suspected of damaging fertility or the unborn child. : May cause drowsiness or dizziness. : May cause damage to organs through prolonged or repeated exposure.
National Toxicity Program (NTP) Status Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	1 : Suspected of damaging fertility or the unborn child. : May cause drowsiness or dizziness.
National Toxicity Program (NTP) Status Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	1 : Suspected of damaging fertility or the unborn child. : May cause drowsiness or dizziness. : May cause damage to organs through prolonged or repeated exposure.

EN (English)



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Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
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	
203055	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
203055	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	2
I3.1. Waste treatment methods	
Naste 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. (Petroleum, Toluene)
Department of Transportation Hazard Classes	: 3
Hazard labels	
Packing group (DOT)	: 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	
Solvent naphtha, petroleum, heavy aromatic	
Listed on the United States TSCA (Toxic Substa	

 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 %

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

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

 Pseudocumene (95-63-6)

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

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

 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 %



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2-Butoxyethanol (111-76-2)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Naphthalene (91-20-3)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 313 (Specific toxic chem	
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 %
Xylenes (o-, m-, p- isomers) (1330-20-7)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 313 (Specific toxic chem	
SARA Section 313 - Emission Reporting	1.0 %
Methylxylene (25551-13-7)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Diethylene glycol monomethyl ether (111-77-3	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Phenylethane (100-41-4)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 313 (Specific toxic chem	
SARA Section 313 - Emission Reporting	0.1 %
Vinyl acetate (108-05-4)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 302 (Specific toxic chem Listed on SARA Section 313 (Specific toxic chem	ical listings)
SARA Section 302 Threshold Planning Quantity (TPQ)	1000
SARA Section 313 - Emission Reporting	0.1 %
Cumene (98-82-8)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 313 (Specific toxic chem	
Listed on SARA Section 313 (Specific toxic chem	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

15.2. US State regulations

203055	
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.
	 Carcinogenic to humans; Probably carcinogenic to humans; Possibly carcinogenic to humans; Not classifiable; Probably not carcinogenic to humans.
NTP	National Toxicology Program.
	 Evidence of Carcinogenicity; Known Human Carcinogens; Reasonably anticipated to be Human Carcinogen; Substances delisted from report on Carcinogens; Twelfth Report - Items under consideration.



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Indication of changes	: None.	
Date of issue	: 04/04/2014	
Other information	: None.	
NFPA health hazard	: 2	
NFPA fire hazard	: 3	3
NFPA reactivity	: 0	2 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

