

PENRAY WINTER POW-R® PLUS

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/28/2014 Revision date: 04/28/2014 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	: PENRAY WINTER POW-R® PLUS BIODIESEL TREATMENT
Product code	: 202632
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
Use of the substance/mixture	: Bio-diesel fuel treatment.
1.3. Details of the supplier of the safety da	ata 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	
2.1. Classification of the substance or mi	xture
GHS-US classification	
Flammable Liquid 3 Acute toxicity 4 (Inhalation) Skin irritation 2 Carcinogenicity 2 Reproductive toxicity 2 Specific target organ toxicity - Single exposure 3 Aspiration hazard 1	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	
	GHS02 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Precautionary statements (GHS-US)	 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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. 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	
2.4. Unknown acute toxicity (GHS-US)	
15 % of the mixture consists of ingredient(s) of un	known acute toxicity.
SECTION 3: Composition/information	on ingredients
3.1. Substance	

Not applicable

04/28/2014



Safety Data Sheet

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

Name	Product identifier	%	GHS-US classification
Kerosene, petroleum	(CAS No) 8008-20-6	40 - 70	Flam. Liq. 3 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
Distillates, petroleum, hydrotreated light naphthenic	(CAS No) 64742-53-6	7 - 13	Not classified
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	5 - 10	Flam. Liq. 3 Asp. Tox. 1
Solvent naphtha, petroleum, light aromatic	(CAS No) 64742-95-6	1 - 5	Asp. Tox. 1
Diethylene glycol monomethyl ether	(CAS No) 111-77-3	1 - 5	Flam. Liq. 4 Eye Irrit. 2A Repr. 2
Naphthalene	(CAS No) 91-20-3	0.5 - 1.5	Acute Tox. 4 (Oral, Dermal) Carc. 2
Pseudocumene	(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
2-Ethylhexyl nitrate	(CAS No) 27247-96-7	0.5 - 1.5	Flam. Liq. 4 Acute Tox. 4 (Inhalation)
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	0.5 - 1.5	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 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

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 effect	ts, 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

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).

SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	:	Treat for surrounding material.
Unsuita	ble extinguishing media	:	None known.
5.2.	Special hazards arising from the s	ubst	ance or mixture
Fire ha	zard	:	Products of combustion may include, and are not limited to: oxides of carbon.
5.3.	Advice for firefighters		
Protect	on during firefighting	:	Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.



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

SECTION 6: Accident	al release meas	ures	
		ipment and emergency procedures	
General measures			led in Section 8. Isolate the hazard area and deny entry to nnel. Eliminate sources of ignition.
6.2. Methods and mat	terial for containmer	nt and cleaning up	
For containment			t material (e.g. sand, vermiculite), then place in a suitable Ilow to enter waterways. Use appropriate Personal
Methods for cleaning up		: Scoop up material and place in a dis	sposal container. Provide ventilation.
6.3. Reference to othe	er sections		
See section 8 for further info	rmation on protective	clothing and equipment and section 13	B for advice on waste disposal.
SECTION 7: Handling	and storage		
7.1. Precautions for s			
Precautions for safe handling	g	breathing gas/mist/vapors/spray. Do	 No smoking. Avoid contact with skin and eyes. Avoid not swallow. Handle and open container with care. Use onl not eat, drink or smoke. Use only outdoors or in a well-
Hygiene measures		: Launder contaminated clothing befo	re reuse. Wash hands before eating, drinking, or smoking.
7.2. Conditions for sa	afe storage, including	g any incompatibilities	
Storage conditions		: Keep out of the reach of children. Ke Store locked up. Keep cool. Keep av	eep container tightly closed and in a well-ventilated place. way from heat, sparks, and flame.
7.3. Specific end use	(s)		
Not available.			
SECTION 8: Exposure		nal protection	
8.1. Control parameter	ers		
Kerosene, petroleum (80			
USA ACGIH	ACGIH TWA (m	g/m³)	200 mg/m ³
Distillates, petroleum, hy	drotreated light nap	hthenic (64742-53-6)	
USA ACGIH	ACGIH TWA (m	g/m³)	5 mg/m ³
USA OSHA	OSHA PEL (TW	'A) (mg/m³)	5 mg/m ³
Colvent nonkthe netrole	um hoovy cromotic	(64742.04.5)	
Solvent naphtha, petrole	ACGIH TWA	(64742-94-3)	Not applicable.
USA OSHA	OSHA PEL (TW	(A)	Not applicable.
		.,	· · · · · · · · · · · · · · · · · · ·
Solvent naphtha, petrole		64742-95-6)	
USA ACGIH	ACGIH TWA		Not applicable.
USA OSHA	OSHA PEL (TW	A)	Not applicable.
Diethylene glycol monon	nethyl ether (111-77-	3)	
USA ACGIH	ACGIH TWA		Not applicable.
USA OSHA	OSHA PEL (TW	(A)	Not applicable.
Naphthalana (01.20.2)			
Naphthalene (91-20-3) USA ACGIH	ACGIH TWA (pr	om)	10 ppm
USA ACGIH	ACGIH STEL (p		15 ppm
USA OSHA	OSHA PEL (TW	, ,	50 mg/m ³
USA OSHA	OSHA PEL (TW		10 ppm
		/ M F /	
Pseudocumene (95-63-6)			
USA ACGIH	ACGIH TWA (pp	om)	25 ppm
2-Ethylhexyl nitrate (2724	17-96-7)		
USA ACGIH	ACGIH TWA		Not applicable.
USA OSHA	OSHA PEL (TW	(A)	Not applicable.



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

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/m ³)		435 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)		100 ppm
Phenylethane (100-41-4)			
USA ACGIH	ACGIH TWA (ppm)		20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)		435 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)		100 ppm
Vinyl acetate (108-05-4)			
USA ACGIH	ACGIH TWA (ppm)		10 ppm
USA ACGIH	ACGIH STEL (ppm)		15 ppm
Cumene (98-82-8)			
USA ACGIH	ACGIH TWA (ppm)		50 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)		245 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)		50 ppm
8.2. Exposure controls			
Appropriate engineering controls		ation adequate to keep exp nded exposure limits.	osures (airborne levels of dust, fume, vapor, etc.) below
Personal protective equipment	: Avoid all	Avoid all unnecessary exposure.	
Hand protection	: Wear che	mically resistant protective	gloves.
Eye protection	: Safety gl	sses or goggles are recomr	mended when using product.
Skin and body protection	: Wear sui	able protective clothing.	
Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permi exposure limits may be exceeded. Respirator selection must be based on known or anti exposure levels, the hazards of the product and the safe working limits of the selected m		espirator selection must be based on known or anticipated	
Environmental exposure control	: Maintain	Maintain levels below Community environmental protection thresholds.	
Other information			erial is handled, processed or stored. Wash hands carefully ording to established industrial hygiene and safety practices.
SECTION 9: Physical an	d chemical properties		

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid.
Colour	: Amber.
Odour	: Petroleum odor.
Odour threshold	: No data available.
рН	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: ~ 49 °C (~ 120 °F)
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: 0.904 - 0.914
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.



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

according to the Hazard Communication Standard (CFR29	1910.1200) HazCom 2012.	
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 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 carbo		
SECTION 11: Toxicological information	on and a second s	
11.1. Information on toxicological effects		
Acute toxicity	Harmful if inhaled.	
202632		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	~ 16 mg/l/4h	
Kerosene, petroleum (8008-20-6)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h	
Distillates, petroleum, hydrotreated light napl	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	2.18 mg/l/4h	
Solvent naphtha, petroleum, heavy aromatic		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	>2000mg/kg > 5.28 mg/l/4h	
LC50 inhalation rat (mg/l)	> 5.28 mg///4m	
Solvent naphtha, petroleum, light aromatic (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	
Diethylene glycol monomethyl ether (111-77-3		
LD50 oral rat	7128 mg/kg	
LD50 dermal rabbit	9404 mg/kg	
Naphthalene (91-20-3)		
LD50 oral rat	490 mg/kg	
LD50 dermal rabbit	> 20 g/kg	
Pseudocumene (05-63-6)		
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-Ethylhexyl nitrate (27247-96-7)		
LD50 oral rat	> 2000 mg/kg	
04/28/2014	EN (English) 5/8	



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

2-Ethylhexyl nitrate (27247-96-7)	
LD50 dermal rabbit	> 4820 mg/kg
LC50 inhalation rat (mg/l)	> 14 mg/l/4h
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat (ppm)	5000 ppm/4h
LC50 inhalation rat (mg/l)	47635 mg/l/4h
Phenylethane (100-41-4) LD50 oral rat	2500 malla
LD50 dermal rabbit	3500 mg/kg 15354 mg/kg
LC50 inhalation rat (mg/l)	17.2 mg/l/4h
	17.2 mg/v4n
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
	1
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Suspected of causing cancer.
Naphthalene (91-20-3)	
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)	28
IARC group National Toxicity Program (NTP) Status	2D 1
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
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	: 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.
CECTION 42. Ecological information	

SECTION 12: Ecological information 12.1. Toxicity

Ecology - general

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



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

12.2. Persistence and degradability	
202632	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
202632	
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	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	
UN-No.	: UN1268
14.2. UN proper shipping name	
Proper Shipping Name	: Petroleum distillates, n.o.s.
Department of Transportation Hazard Classes	: 3
Hazard labels	
	3
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	
Kerosene, petroleum (8008-20-6)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
Distillates, petroleum, hydrotreated light nap	abthenic (64742-53-6)
Listed on the United States TSCA (Toxic Substa	
Solvent naphtha, petroleum, heavy aromatic	
Listed on the United States TSCA (Toxic Substa	
Solvent naphtha, petroleum, light aromatic (
Listed on the United States TSCA (Toxic Substa	
Diethylene glycol monomethyl ether (111-77-3)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
Naphthalene (91-20-3)	
Listed on the United States TSCA (Toxic Substa	
Listed on SARA Section 313 (Specific toxic che 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 %
Pseudocumene (95-63-6) Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
Listed on SARA Section 313 (Specific toxic che	
SARA Section 313 - Emission Reporting	1.0 %



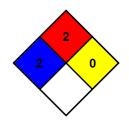
Safety Data Sheet

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

2-Ethylhexyl nitrate (27247-96-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Xylenes (o-, m-, p- isomers) (1330-20-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 313 - Emission Reporting	1.0 %	
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 Substances Control Act) inventory 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)	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		
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 %	
15.2. US State regulations		
202632		
State or local regulations This product contains chemicals known to the State of California to cause cancer.		
SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:		
IARC International Agenc	y 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.

SECTION 16: Other information		
Indication of changes Date of issue	:	None. 04/28/2014
Other information	:	None.
NFPA health hazard NFPA fire hazard NFPA reactivity	-	2 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

