

MSDS Material Safety Data Sheet

The Penray Companies, Inc.



PENRAY WINTER POW-R PLUS FUEL TREATMENT

MSDS Number: 202032 GHS

Revision Date: 4/19/2013

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

The Penray Companies, Inc.
440 Denniston Ct.
Wheeling, IL 60090

Contact: EH&S Department
Phone: 847-459-5000
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Web: www.penray.com

Product Name: PENRAY WINTER POW-R PLUS FUEL TREATMENT
Revision Date: 4/19/2013
Version: 1
MSDS Number: 202032 GHS
Common Name: FUEL ADDITIVE PRODUCT CONTAINING TOLUENE
Product Code: 202032

EMERGENCY CONTACT TELEPHONE NUMBERS 24hrs/7
Adverse Medical: 1-800-752-7869 (24hr poison control call center)
Transport Response:
CHEMTRAC 1-800-424-9300.
CHEMTRAC International 703-527-3887 (collect)

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HAZARDS IDENTIFICATION

Route of Entry: Skin absorption, Eye Contact, Inhalation, Ingestion

Target Organs: Acute: Central nervous system
Repeat exposure: Auditory system, Liver, Kidney

Inhalation: Respiratory irritation and dizziness.

Skin Contact: Prolonged contact with skin can cause irritation.

Eye Contact: Will cause irritation upon contact.

Ingestion: Product may cause discomfort, nausea, vomiting and diarrhea.

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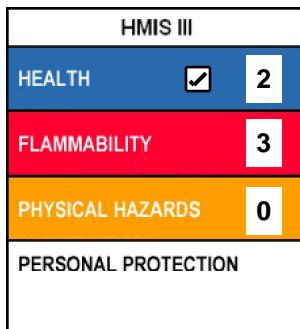
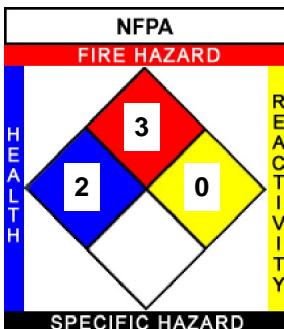
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NFPA: Health = 2, Fire = 3, Reactivity = 0
HMIS III: H2/F3/PH0



GHS Hazard Pictograms:



GHS Classifications:

Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Skin corrosion/irritation, 2
Health, Carcinogenicity, 2
Health, Reproductive toxicity, 2
Health, Specific target organ toxicity - Single exposure, 3
Health, Specific target organ toxicity - Repeated exposure, 2
Health, Aspiration hazard, 1
Health, Serious Eye Damage/Eye Irritation, 2 A
Physical, Flammable Liquids, 2

GHS Phrases:

Warning, H302 - Harmful if swallowed
Warning, H312 - Harmful in contact with skin
Warning, H332 - Harmful if inhaled
Warning, H315 - Causes skin irritation
Warning, H351 - Suspected of causing cancer
Warning, H361 - Suspected of damaging fertility or the unborn child
Warning, H336 - May cause drowsiness or dizziness
Warning, H373 - May cause damage to organs through prolonged or repeated exposure
Danger, H304 - May be fatal if swallowed and enters airways
Warning, H319 - Causes serious eye irritation
Danger, H225 - Highly flammable liquid and vapour

GHS Precautionary Statements:

P260 - Do not breathe fume/vapours.
P271 - Use only outdoors or in a well-ventilated area.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P280 - Wear protective gloves and eye protection
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

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water/shower. Wash contaminated clothing before reuse

P332+313 - If skin irritation occurs: Get medical advice/attention.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337 - If eye irritation persists: Get medical advice/attention

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+330+331+310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P202 - Do not handle until all safety precautions have been read and understood.

P308+313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P370+378 - In case of fire: Use CO₂, Dry chemical, or Foam for extinction.

P501 - Dispose of contents/container to designated waste facility in accordance with all local, regional and national regulations.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
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108-88-3	30-60%	Toluene
64742-95-6	1-5%	Solvent naphtha, petroleum, light arom.
64742-94-5	7-13%	Solvent naphtha, petroleum, heavy arom.
95-63-6	1-5%	1,2,4-Trimethylbenzene
27247-96-7	1-5%	Nitric acid, 2-ethylhexyl ester
91-20-3	0.1-1%	Naphthalene
1330-20-7	1-5%	Xylenes, mixed
100-41-4	0.1-1%	phenylethane
111-77-3	1-5%	Diethylene glycol monomethyl ether

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FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

Skin Contact: Wash area with soap and water. seek medical attention if irritation persists

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Do not induce vomiting. Rinse Mouth. Obtain emergency medical attention

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FIRE FIGHTING MEASURES

Flash Point: 54 F

Flash Point Method: TCC

EXTINGUISHING MEDIA: Carbon Dioxide (CO₂) Dry Chemical, Foam.

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UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and can collect in low areas

FIRE FIGHTING INSTRUCTIONS: Containers can build up pressure if exposed to fire. Containers should be cooled with water supply.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full face piece operated in positive pressure mode.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions:

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flames, flares, electrical sparks, etc)

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

All clean-up material should be removed and placed in approved containers for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

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HANDLING AND STORAGE

- Handling Precautions:** Wash thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not smoke while using this product. Do not use near excessive heat, sparks, or open flame.
- Storage Requirements:** Store in clean, dry locations away from excessive heat. Store in areas designated for the storage of flammable liquids according to NFPA 30 (Flammable and Combustible Liquids Code)

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EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Eye wash station and safety shower. General ventilation.
- Personal Protective Equip:** EYE: Chemical splash goggles with indirect or no ventilation.
SKIN: Chemical resistant gloves, such as nitrile.
RESPIRATORY: Organic vapor air purifying respirator if vapors are a nuisance or if the concentrations are above PEL or TLV.

TLV

Toluene:

50 PPM (TWA)

300 ppm (Ceiling)

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber colored
Physical State: Liquid
Spec Grav./Density: 0.8873
Boiling Point: 220F

Solubility: Not soluble in water
Percent Volatile: 100%
Flash Point: 56F

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STABILITY AND REACTIVITY

Stability: Material is stable.
Conditions to Avoid: Excessive heat and open flame.
Materials to Avoid: Strong oxidizing agents.
Hazardous Decomposition: Carbon Monoxide and Carbon Dioxide
Hazardous Polymerization: Cannot occur.

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TOXICOLOGICAL INFORMATION

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(Toluene)

Acute toxicity

Oral LD50

LD50 Oral - rat - > 5,580 mg/kg

Inhalation LC50

LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m³

Dermal LD50

LD50 Dermal - rabbit - 12,196 mg/kg

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ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

ENVIRONMENTAL FATE: This product contains components which may be persistent in the environment.

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DISPOSAL CONSIDERATIONS

As a waste, this product in its raw form DOES MEET the criteria of a hazardous waste as defined by RCRA (40CFR361). Dispose of in accordance with all applicable state, federal and local regulations.

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TRANSPORT INFORMATION

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DOMESTIC:

Limited Quantity

EXPORT:

FLAMMABLE LIQUIDS, N.O.S. (CONTAINS TOLUENE), CLASS 3, UN 1993, PGIII, FP 26 DEGREES CCC.
LIMITED QUANTITY

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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Toluene (108883 30-60%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

*Solvent naphtha, petroleum, light arom. (64742956 1-5%) TSCA

*Solvent naphtha, petroleum, heavy arom. (64742945 7-13%) TSCA

*1,2,4-Trimethylbenzene (95636 1-5%) MASS, NJHS, PA, SARA313, TSCA, TXAIR

*Nitric acid, 2-ethylhexyl ester (27247967 1-5%) TSCA

*Naphthalene (91203 0.1-1%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

*Xylenes, mixed (1330207 1-5%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*Phenylethane (100414 0.1-1%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

*Diethylene glycol monomethyl ether (111773 1-5%) HAP, MASS, PA, TSCA

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

EPCRAWPC = EPCRA Water Priority Chemicals

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

PRIPOL = Clean Water Act Priority Pollutants

PROP65 = CA Prop 65

SARA313 = SARA 313 Title III Toxic Chemicals

TOXICPOL = Clean Water Act Toxic Pollutants

TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

USERS RESPONSIBILITY: This MSDS provides environmental, health and safety information. This product is to be used in applications consistent with our product literature and container label. Individuals handling this product should be informed to the recommended safety precautions and have access to this MSDS. Please contact your local sales representative or our EH&S Department for further information.

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

This information is given in good faith and based on our current knowledge of the product.

END MSDS