

MSDS *Material Safety Data Sheet*

The Penray Companies Inc.

Penray Winter Thaw- 202132

MSDS Number: 202132

Revision Date: 04/20/2012

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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

Contact: EHS Department
Phone: 847-459-5041
Fax: 847-459-5043
Web: penray.com

Product Name: Penray Winter Thaw- 202132
Revision Date: 04/20/2012
Version: 1
MSDS Number: 202132
Common Name: Mixture containing Aromatic Saturated, Unsaturated Hydrocarbons and Petroleum Distillates
RCRA Number: D001
Product Use: Diesel Fuel conditioner in a 1 gallon HDPE bottle

EMERGENCY CONTACT TELEPHONE NUMBERS 24hrs/7

Adverse Medical: 1-800-752-7869 (24hr poison control call center)

Transport Response:

CHEMTREC 1-800-424-9300. CHEMTREC International 703-527-3887 (collect)
CANUTEC (Canada only) 613-996-666, or *666 on cellular phone

2 HAZARDS IDENTIFICATION

Route of Entry: Ingestion; inhalation; Skin;

Target Organs: NA

Inhalation: Respiratory tract complications will occur with exposure to any amount of material

Skin Contact: Will cause Irritation.

Eye Contact: Will cause severe Irritation upon direct contact

Ingestion: Aspiration hazard. Harmful if swallowed.

Signal word: WARNING

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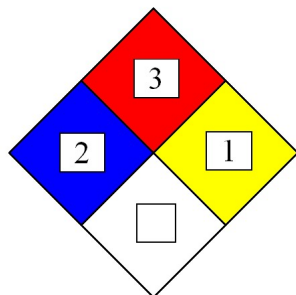
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HAZARD OVERVIEW: Flammable Liquid. Heated vapors in the presence of an ignition source can be explosive if confined. Irritant.

HEALTH	2
FLAMMABILITY	3
REACTIVITY	1
PPE	x



Prolonged unprotected exposure to this product will cause skin irritation. Material splashed in eyes will act as a strong irritant.

As with any petroleum product, avoid mixing this product with strong oxidizers.

Carcinogen listing by:

National Toxicology Program (2)

I.A.R.C (2B)

OSHA (NO)

ACGIH (A3)

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

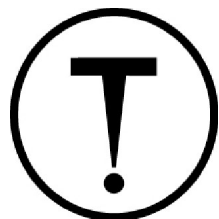
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.

CANADA WHMIS classification: CONTROLLED PRODUCT

D2B-Material causing other toxic effects- irritant

B2- Flammable Liquid.



NOT INTENDED FOR HOUSEHOLD USE!

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THE INFORMATION IN THE MATERIAL SAFETY DATA SHEET (MSDS) SHALL BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THE PENRAY COMPANIES INC. ENCOURAGES AND EXPECTS THE USER, DISTRIBUTOR, HANDLER TO READ THE ENTIRE MSDS, AND CONSULT APPROPRIATE EXPERTISE AS NECESSARY, TO BECOME AWARE OF AND FULLY UNDERSTAND THE INFORMATION CONTAINED IN THE MSDS AND OF ANY OCCUPATIONAL HAZARDS ASSOCIATED WITH THIS PRODUCT USE IN THE WORKPLACE.

3 HAZARDS IDENTIFICATION

Ingredients:

COMPONENT MATERIALS CONSIDERED HAZARDOUS PER FEDERAL, STATE OR PROVINCIAL OCCUPATIONAL HEALTH, AND REGULATORY BODIES

Ingredients:

CAS #	Percentage	Chemical Name

INGREDIENT		CAS NUMBER
KEROSENE		8008-20-6
ISOPROPANOL		67-63-2
SOLVENT NAPHTHA, LIGHT AROMATIC		64742-95-6
SOLVENT NAPHTHA, HEAVY AROMATIC		64742-94-5
BENZENE, 1,2,4-TRIMETHYL		95-63-6
Benzene, 1,3,5 TRIMETHYL		108-67-8
N-PROPYLBENZENE		103-65-1
NAPHTHALENE		91-20-3
		PERCENT WEIGHT
		60%-100%
		15%-40%
		1-5%
		1-5%
		> Diminimus
		> Diminimus
		> Diminimus
		> Diminimus

OSHA Regulatory Status:

This MSDS Contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

4 FIRST AID MEASURES

Inhalation: Vapours appear at normal working temperature.

Skin Contact: Wash with soap and water.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Seek medical attention if symptoms warrant.

Ingestion: Drink fluids
SEEK emergency medical attention, and INDUCE

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controlled vomiting under the supervision of a physician.

5 FIRE FIGHTING MEASURES

Flammability: WHMIS- Does meet Flammable criteria to be controlled, NFPA class IIB
Flash Point: 56 degrees
Flash Point Method: Ccc
Burning Rate: NA
Autoignition Temp: >400 degrees F (degrees C)
LEL: NA
UEL: NA

Wear self contained breathing apparatus and other protective clothing.
Use any standard agent - choose the one most appropriate for type of surrounding fire.

6 ACCIDENTAL RELEASE MEASURES

Release Measures:

Extinguish any open flames and remove heat sources.

CONTAIN, ABSORB, CONTROL THE SPILLAGE WITH THE SAFEST MOST EFFECTIVE MEANS AT YOUR DISPOSAL.

This material will float on water and will be transported by stormwater runoff. Soils to the ground should be immobilized and removed immediately. Spills to watercourse such as storm drains, sewers, ditches, streams.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

*Information about ingredient percentages of product, according to RQ (Reportable Quantity): Available upon request in the event of major uncontrolled release.

7 HANDLING AND STORAGE

Handling Precautions: Handle with care and avoid spillage on the floor (slippage).
Consider normal working hygiene.
DO NOT SMOKE WHILE IN USE
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Use proper bonding and grounding techniques.
STATIC ACCUMULATOR AND IGNITION POTENTIAL

Storage Requirements: Store in cool/dry area;
Suitable packing materials
Store in areas designated for the storage of flammable liquids according to NFPA 30

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(Flammable and Combustible Liquids Code)

EMPTY CONTAINER WARNING!

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT

PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH

Do not attempt to refill or clean containers since residue is difficult to remove.

"Empty"

drums should be completely drained, properly bunged and promptly returned to a drum

reconditioner. All other containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

For work on tanks, refer to OSHA regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or contemplated operations.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use mechanical (general) ventilation for storage areas.

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equip:

Sealed monogoggles, Gloves such as Butyl rubber or Neoprene, NIOSH approved and N95 OV rated respirator if misting of product occurs.

HMIS PP, X | Consult your supervisor for special instructions

If there is likelihood of splashing, oil resisitant clothing should be worn. Never wear oil soaked clothing. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard)

Exposure Limits: Aromatic Hydrocarbons

USA OSHA (TWA₅)/PEL): 5 mg/m³

ACGIH (TWA/TLV): consult NIOSH pocket guide

Respiratory Protection: X- consult supervisor

Ventilation: X- consult supervisor

Protective Gloves: X- consult supervisor

Eye Protection: X- consult supervisor

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Other Protective Equipment: X- consult supervisor

Note: PERSONAL PROTECTIVE EQUIPMENT (ppe) REQUIREMENTS ARE RELATED TO CONDITIONS OF USE, WHICH CANNOT BE SUITABLY PREDICTED BY THE PRODUCT MANUFACTURER. DETERMINATION OF NECESSARY (ppe) IS THE RESPONSIBILITY OF THE EMPLOYER/ USER, BASED ON ASSESSMENT AND KNOWLEDGE OF THE EMPLOYER'S INDUSTRIAL PROCESSES AND WORKPLACE ENVIRONMENT. IN EVERY CIRCUMSTANCE OF CHEMICAL EXPOSURE, THE EMPLOYER SHALL LIMIT WORKER EXPOSURES TO THIS PRODUCT FIRST BY IMPLEMENTING EFFECTIVE ENGINEERING CONTROLS, AND SECOND BY IMPLEMENTING ADMINISTRATIVE CONTROLS. PERSONAL PROTECTIVE EQUIPMENT (ppe) SHALL BE USED DILIGENTLY BY WORKERS WHEN ENGINEERING AND ADMINISTRATIVE CONTROLS DO NOT FULLY PREVENT OCCUPATIONAL EXPOSURE TO THIS PRODUCT.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber colored	Odor:	Petroleum Distillate
Physical State:	Liquid	Molecular Formula:	N/A
Particle Size:	N/A	Solubility:	Not soluble in water
Spec Grav./Density:	0.91	Softening Point:	N/A
Viscosity:	N/A	Percent Volatile:	> 45%
Sat. Vap. Concentra	N/A	Heat Value:	N/A
Boiling Point:	>320 degrees F (332 degrees C)	Freezing/Melting Pt.	-28 degrees F (-33 degrees C)
Vapor Pressure:	<0.0001 mm Hg @ 20 degrees C	Octanol:	N/A
pH:	Neutral	Vapor Density:	> 1 (Air =1)
Evap. Rate:	N/A	VOC:	99%
Molecular weight:	420	Bulk Density:	7.567 lbs/gal

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Extreme heat, ignition sources
Materials to Avoid:	All Oxidizing Agents. Perchlorates, chlorine, fluorine
Hazardous Decomposition:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
Hazardous Polymerization:	Will not occur.

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TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

ACUTE STUDIES : Moderate order, mild to severe pulmonary effects as Napthenic Petroleum Distillates.

ACUTE SKIN: Prolonged skin contact tends to remove skins oils, possibly leading to irritation and dermatitis, however, based on human experience and available toxicological data, this product is judged no to be "corrosive" however is an "irritant" by OSHA criteria.

EYE EFFECTS: Product contacting eyes will cause strong irritation.

ACUTE ORAL : Product has a moderate order of acute toxicity, but gross amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury including chemical pneumonitis, pulmonary edema/hemorrhage and possibly death.

ACUTE INHALATION: Product has a moderate order of acute toxicity, but gross amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury including chemical pneumonitis, pulmonary edema/hemorrhage and possibly death.

Carcinogeny-NTP/IARC: There is no available evidence known, to state that this chemical product poses a carcinogenic risk in humans under normal conditions of handling and industrial use.

Specific L/D 50 data about product:
LD50

KEROSENE 28 ml/kg (oral)
ISOPROPANOL 5.8 g/kg (oral)
HEAVY AROMATIC NAPHTHA 3237 mg/kg (oral)

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ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS

If applied to leaves, this product will kill grass and small plants by interfering with transpiration and respiration. This product is toxic to fish and will affect gill structures resulting in suffocation if spilled in shallow, stagnate water. Product may be toxic to amphibians by preventing dermal respiration. This product will cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

ENVIRONMENTAL FATE

This product is somewhat biodegradable. Biodegradation is possible within 90 to 120 days in aerobic environments at temperatures above 70 degrees F.

IN GENERAL, PRODUCT DEMONSTRATES NEGLIGIBLE WATER SOLUBILITY WHEN EXPOSED TO THE NATURAL ENVIRONMENT.

Specific L/C 50 data in aquatic environments, about product: NOT AVAILABLE

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DISPOSAL CONSIDERATIONS

DISPOSAL

Product, as supplied DOES meet the characteristics of a hazardous waste as defined in 40 CFR 261.21-24. If mixed with other products, waste mixture must be characterized. Do NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill.

Dispose of in accordance with local regulations at a suitable waste-disposal site approved by local, state/provincial authorities.

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TRANSPORT INFORMATION

DOT: ORM-D, Consumer Commodity, (Ground transport in U.S.A only)

TDG: UN 1993, Flammable liquids n.o.s, (contains Isopropanol) 3, PG II, (Fp 40 C) cc

IATA: UN 1993, Flammable Liquids n.o.s (contains Isopropanol) 3, PG II, (Fp 40 C) cc, LIMITED QUANTITY

IMDG: UN 1993, Flammable Liquids n.o.s (contains Isopropanol) 3, PG II, (Fp 40 C) cc EmS F-E, S-D. Category B, LIMITED QUANTITY

ADR: UN 1993, Flammable Liquids n.o.s, (contains Isopropanol) 3, PG II, (Fp 40 C) cc

THIS SECTION IS PROVIDED FOR GENERAL INFORMATION ONLY. THE SHIPPING DESCRIPTION ABOVE MAY NOT REPRESENT REQUIREMENTS FOR ALL MODES OF TRANSPORTATION, PACKAGING, SHIPPING METHODS, OR LOCATIONS OUTSIDE OF THE GEOGRAPHIC BOUNDRIES OF THE U.S.A.

Other party shipper: For more complete transportation regulatory information; please refer to the appropriate dangerous goods code of regulations, in order to complete necessary shipping documents.

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REGULATORY INFORMATION

COMPLIANCE * Information about product ingredient percentages: available upon request

U.S. FEDERAL REGULATORY INFORMATION (SARA/ EPCRA Title III, 42 U.S.C 11001)
Chemicals in this product are subject to the reporting requirements EPCRA.

EPCRA section 301-303- Threshold Planning Quantity: Y

EPCRA section 304 -Reportable Quantity: Y

EPCRA section 311

Categories: Immediate (Acute Health effects)- Y

Delayed Chronic effects- Y

Fire Hazard-Y

Sudden Release of pressure-N

Reactivity Hazard-N

EPCRA section 312- Threshold Planning Quantity: Y

EPCRA section 313- Y

USEPA/ TSCA Inventory: The components of this product are listed on the USEPA/TSCA (Toxic Substances Control Act) inventory of chemicals, 15 U.S.C. 2601.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA 42 U.S.C 9601):
Chemicals in this product are subject to the reporting requirements CERCLA section 103

OSHA Hazard Communication Standard: This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

STATE and COMMUNITY Right-To-Know regulations (RTK);

LA,CA,NJ,PA,MA,FL,MI,IL,RI,ME,ID,MN,DE

Components Listed in sec 3- Yes

Extremely, Extraordinarily, and Special Hazardous Substance- NJ,MA,PA,NY,WA,WV,WI

Components Listed in sec 3- N

CALIFORNIA PROPOSITION 65: This product DOES contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm: Naphthalene

CANADIAN REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations(CPR) and the MSDS contains all the information required by the Controlled Products Regulations.

This products contents are listed on the Canadian Domestic Substances List (DSL)

THE INFORMATION PROVIDED HEREIN THIS SECTION MAY NOT INCLUDE THE IMPACT OF ADDITIONAL REGULATORY REQUIREMENTS (e.g., for materials meeting the definition of hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants (MARPOL) under CWA or similar federal, state, provincial or laws regulations, within or outside the geographic boundaries of the U.S.A.

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OTHER INFORMATION

STATEMENTS DENOTED BELOW THIS TYPE SCRIPT ARE MEANT AS DISCLAIMER*****

ACKNOWLEDGEMENT UPON PURCHASE

USERS RESPONSIBILITY; THIS MSDS IS INTENDED TO MEET THE SPECIFIC REQUIREMENTS OF 29 CFR1910.1200 (U.S.A), HAZARDOUS PRODUCTS ACT AND CONTROLLED PRODUCTS REGULATIONS (CANADA), NOM 018 STPS 2000 (MEXICO), AND ANSI Z400.1-200, AND SHOULD BE USED ACCORDINGLY. WHILE THE INFORMATION HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE AND RELIABLE, NO WARRANTY, EXPRESSED OR IMPLIED, CAN BE MADE WITH REGARD TO ITS COMPLETENESS,CORRECTNESS OR ACCURACY. THIS MSDS IS OFFERED INTO THE WORKPLACE FOR YOUR CONSIDERATION, INVESTIGATION AND CONCLUSIONS DRAWN HEREIN FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE PRODUCT. SINCE CONDITIONS NECESSARY FOR THE SAFE USE OF THE PRODUCT ARE NOT UNDER CONTROL OF THE MANUFACTURER, IT IS THE BUYERS, DISTRIBUTORS AND USERS LEGAL RESPONSIBILITY TO DETERMINE THE CONDITIONS NECESSARY FOR THE SAFE USE OF THE PRODUCT. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE LEGAL RESPONSIBILITY OF THE BUYERS, DISTRIBUTORS, USERS OF THIS PRODUCT. ANY USERS, DISTRIBUTORS, HANDLERS OF THIS PRODUCT WHO ARE NOT UNDER THE DIRECT, LEGALLY DEFINED CONTROL OF THE PENRAY COMPANIES INC., ARE RESPONSIBLE FOR EVALUATING THIS INFORMATION IN LIGHT OF THE PARTICULAR WORKPLACE ENVIRONMENT, AND ARE RESPONSIBLE FOR ALL LOSSES, DAMAGES OR EXPENSES THAT RESULT WHILE THIS PRODUCT IS UNDER THEIR CONTROL. IT IS ALSO THE RESPONSIBILITY OF THE USERS, DISTRIBUTORS, HANDLERS OF THIS PRODUCT TO OBSERVE ANY AND ALL LAWS AND REGULATIONS (FEDERAL, STATE, PROVINCIAL,AND LOCAL) CONCERNING THE TRANSPORTATION, USE, HANDLING, STORAGE, AND DISPOSAL OF THIS PRODUCT.

Physicians, Toxicologists,

* A full disclosure MSDS is available upon request for valid health and environmental emergency incidents only, by contacting (847) 459-5041 during regular business hours.

Prepared by: (GAW) EHS Department, The Penray Companies Inc. Wheeling, IL. U.S.A

END OF MSDS.