

# Safety Data Sheet

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

Date of issue: 07/24/2014 Revision date: 07/24/2014 Version: 1.0

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

1.1. Product identifier

Product name : PENRAY INTAKE VALVE DEPOSIT CLEANER

CAS No : 2312

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

Use of the substance/mixture : Fuel System cleaner.

1.3. Details of the supplier of the safety data sheet

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

#### **GHS-US** classification

Flammable Liquid 2
Acute toxicity 4 (Dermal, Inhalation)
Skin irritation 2
Carcinogenicity 2
Reproductive toxicity 2 (developmental)
Specific target organ toxicity - Repeated exposure 2
Aspiration hazard 1

## 2.2. Label elements

## **GHS-US** labelling

Hazard pictograms (GHS-US)



V



GHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US)

: Highly flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation. Suspected of damaging the unborn child. 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 swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. 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

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## **SECTION 3: Composition/information on ingredients**

#### **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	60 - 100	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Phenylethane	(CAS No) 100-41-4	7 - 30	Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2 Asp. Tox. 1
Toluene	(CAS No) 108-88-3	7 - 13	Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1
Solvent naphtha, petroleum, light aromatic	(CAS No) 64742-95-6	0.5 - 1.5	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A Asp. Tox. 1

<sup>\*</sup> 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**

#### **Description of first aid measures** 4.1.

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.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to First-aid measures after eye contact

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.

#### Most important symptoms and effects, both acute and delayed

: Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression. Symptoms/injuries after inhalation May cause respiratory tract irritation.

: Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, Symptoms/injuries after skin contact

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.

#### 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**

## **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,

hydrocarbons.

# 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.

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### **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.

#### 6.2. Methods and material for containment 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 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 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

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	

Phenylethane (100-41-4)		
USA ACGIH ACGIH TWA (ppm) 20 ppm		20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

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

Solvent naphtha, petroleum, light aromatic (64742-95-6)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

## 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.

Eye protection : Safety glasses or goggles are recommended when using product.

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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.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Appearance : Clear.
Color : Amber.

Petroleum odor. Odor Odor threshold No data available. pΗ No data available. Relative evaporation rate (butylacetate=1) : No data available. : No data available. Melting point Freezing point No data available. : No data available. Boiling point Flash point ~ 22 °C (~ 71 °F) : No data available. Self ignition temperature Decomposition temperature : No data available.

Flammability (solid, gas) : Flammable.

Vapor pressure : No data available.

Relative vapor density at 20 °C : No data available.

Relative density : 0.864 - 0.869

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

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapor-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. Strong oxidizing agents.

# 10.6. Hazardous decomposition products

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





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<b>SECTION 11: Toxico</b>	ological information
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Acute toxicity : Harmful in contact with skin or if inhaled.

2312	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	>1000 but ≤2000 mg/kg
LC50 inhalation rat	>10.0 but ≤20.0 mg/l/4h (Calculated using ATE values)

Xylenes (o-, m-, p- isomers) (1330-20-7)		
LD50 oral rat	4300 mg/kg	
LD50 dermal rabbit	> 1700 mg/kg	
LC50 inhalation rat	5000 ppm/4 h	

Phenylethane (100-41-4)		
LD50 oral rat	3500 mg/kg	
LD50 dermal rabbit	15354 mg/kg	
LC50 inhalation rat	17.2 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	28.1 mg/l/4h

Solvent naphtha, petroleum, light aromatic (64742-95-6)		
LD50 oral rat	8400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat	3400 ppm/4h	
LC50 inhalation rat	> 5.2 mg/l/4h	

Skin corrosion/irritation Causes skin irritation.

Based on available data, the classification criteria are not met. Serious eye damage/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.

Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3 - Not classifiable

Phenylethane (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity

realistic residity regian (1411) States	1 Evidence of Carolinegerilotty	
Toluene (108-88-3)		
IARC group	3 - Not classifiable	

Reproductive toxicity	: Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

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 : Harmful in contact with skin. 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.



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# **SECTION 12: Ecological information**

12.1. Toxicity

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

12.2. Persistence and degradability

2312

Persistence and degradability Not established.

12.3. Bioaccumulative potential

2312

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

## **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 vapors are flammable.

# **SECTION 14: Transport information**

In accordance with DOT

14.1. UN number

UN-No. : 3295

14.2. UN proper shipping name

Proper Shipping Name : Hydrocarbons, liquid, n.o.s. (Xylene, Phenylethane, Toluene)

Department of Transportation Hazard Classes : 3

Hazard labels

3

Packing group : 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

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Xylenes (o-, m-, p- isom	iers) (1330-20-7)
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Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

#### Phenylethane (100-41-4)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

#### Toluene (108-88-3)

Listed on SARA Section 313 (Specific toxic chemical listings)





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Toluene (108-88-3)	
SARA Section 313 - Emission Reporting	1.0 %

## 15.2. US State regulations

2312	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth
	defects or other reproductive harm.

# **SECTION 16: Other information**

Indication of changes : None.

Date of issue : 07/24/2014

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

