

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 03/28/2014 Revision date: 03/28/2014 Version: 1.0

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

**Product identifier** 

: PENRAY NON-CHLORINATED BRAKE CLEANER Product name

Product code 4605

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

Use of the substance/mixture : Brake Cleaner.

Details of the supplier of the safety data 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**

# Classification of the substance or mixture

### **GHS-US** classification

Flammable Liquid 2 Skin irritation 2 Eye irritation 2A Reproductive toxicity 2 (developmental) Specific target organ toxicity - Single exposure 3

Specific target organ toxicity - Repeated exposure 2

Aspiration hazard 1

#### Label elements 22

# **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS02

GHS07



Signal word (GHS-US) : Danger

Hazard statements (GHS-US)

Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated. 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. Use only outdoors or in a well-ventilated area. 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 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 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 container tightly closed. Store locked up. Keep cool. Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### 2.3. Other hazards

No additional information available

# **Unknown acute toxicity (GHS-US)**

17 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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

### **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Acetone	(CAS No) 67-64-1	40 - 70	Flam. Liq. 2 Eye Irrit. 2A STOT SE 3
Heptane, branched, cyclic and linear	(CAS No) 426260-76-6	15 - 40	Flam. Liq. 2 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
n-Heptane	(CAS No) 142-82-5	10 - 30	Flam. Liq. 2 Skin Irrit. 2 STOT SE 3
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	7 - 13	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2

## **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give First-aid measures after ingestion anything by mouth to an unconscious person. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation : May cause drowsiness, dizziness and central nervous system depression. May cause respiratory

irritation.

Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of Symptoms/injuries after skin contact

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.

### 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.

### Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapours 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.

### **SECTION 6: Accidental release measures**

## 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.

#### Methods and material for containment and cleaning up 6.2.

: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable For containment

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.

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### 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**

#### 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 wellventilated area.

Hygiene measures

: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 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.

### Specific end use(s)

Not available.

### **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

Acetone (67-64-1)		
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

n-Heptane (142-82-5)		
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	2000 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm

Xylenes (o-, m-, p- isomers) (1330-20-7)		
USA ACGIH ACGIH TWA (ppm) 100 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

### **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. : Wear chemically resistant protective gloves.

Hand protection Eye protection

: Safety glasses or goggles are recommended when using product.

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**

## Information on basic physical and chemical properties

Physical state : Liquid Appearance : Clear. Colour : Colourless. Odour : Solvent.

Odour threshold : No data available.

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pH : No data available.

Relative evaporation rate (butylacetate=1) : No data available.

Melting point : No data available.

Freezing point : No data available.

Vodata available.

Boiling point :  $\sim 56$  °C ( $\sim 133$  °F) (Acetone) Flash point :  $\sim -20$  °C ( $\sim -4$  °F) (Acetone)

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 : 0.730 - 0.745 Solubility : No data available. Log Pow : No data available. Log Kow No data available. : No data available. Viscosity, kinematic

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 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

Acids. Amines. Bases. Oxidizers.

### 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 : Not classified

4605		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 20 mg/l/4h	

, ,		
Acetone (67-64-1)		
LD50 oral rat	5800 mg/kg	
LC50 inhalation rat (mg/l)	50100 mg/m³/8h	

n-Heptane (142-82-5)	
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	103 g/m³/4h

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

Skin corrosion/irritation : Causes skin irritation.

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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 : Based on available data, the classification criteria are not met.

**Xylenes (o-, m-, p- isomers) (1330-20-7)**IARC group 3

Reproductive toxicity : Suspected of damaging the unborn child. Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

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 : May cause drowsiness, dizziness and central nervous system depression. May cause respiratory

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.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

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

#### 12.2. Persistence and degradability

4605		
	Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

## 4605

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 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 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. (Acetone, Heptane)

Department of Transportation Hazard Classes :

Hazard labels



Packing group (DOT) : 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.

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# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

This product is not for sale in the following states: CA, UT, NH, DE, MD

Acetone (67-64-1)			
Listed on the United States TSCA (Toxic Substan	Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
Heptane, branched, cyclic and linear (426260-	76-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
n-Heptane (142-82-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag	EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
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 %			

# 15.2. US State regulations

4605	
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;     A - Probably carcinogenic to humans;     B - Possibly carcinogenic to humans;     - Not classifiable;     4 - Probably not carcinogenic to humans.
NTP	National Toxicology Program.
	<ul> <li>1 - Evidence of Carcinogenicity;</li> <li>2 - Known Human Carcinogens;</li> <li>3 - Reasonably anticipated to be Human Carcinogen;</li> <li>4 - Substances delisted from report on Carcinogens;</li> <li>5 - Twelfth Report - Items under consideration.</li> </ul>

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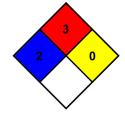
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# **SECTION 16: Other information**

Indication of changes: None.Date of issue: 03/28/2014Other 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

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