

## Safety Data Sheet

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

Date of issue: 08/05/2014 Revision date: 08/05/2014 Version: 1.0

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

1.1. Product identifier

Product name : PENRAY CHLORINATED BRAKE CLEANER

Product code : 4855

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

Use of the substance/mixture : Chlorinated brake cleaner.

1.3. Details of the supplier of the safety data sheet

 The Penray Companies, Inc.
 Manufactured for:

 440 Denniston Ct.
 AIOD

 Wheeling, IL 60090
 P.O. Box 1861

 T (800) 373-6729
 Montrose, CO 81402

 970-240-4176

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

Skin irritation 2 Carcinogenicity 1B

Specific target organ toxicity - Single exposure 3

### 2.2. Label elements

## **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Causes skin irritation. May cause cancer. May cause drowsiness or dizziness.

Precautionary statements (GHS-US) : Wash h

: 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: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. 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. Store locked up. Store in a well-ventilated place. 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

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

## 3.1. Substance

Not applicable

## 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Tetrachloroethylene	(CAS No) 127-18-4	60 - 100	Skin Irrit. 2 Carc. 1B
			STOT SE 3

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Name	Product identifier	%	GHS-US classification
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	3-7	Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2
Phenylethane	(CAS No) 100-41-4	0.5 - 2	Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2 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

### 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. 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 medical advice/attention if you feel unwell.

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

Symptoms/injuries after inhalation

: May be harmful by inhaled. May cause nervous system depression, headache, and weakness leading to unconsciousness.

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 harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### 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).

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Treat for surrounding material.

Unsuitable extinguishing media : Not available.

## 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, hydrogen chloride.

### 5.3. Advice for firefighters

Protection during firefighting

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

#### **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.

## 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

: Avoid contact with skin and eyes. Avoid breathing gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

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

## 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.

#### Specific end use(s) 7.3.

Not available.

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

#### 8.1. **Control parameters**

Tetrachloroethylene (127-18-4)		
USA ACGIH	ACGIH TWA (ppm)	25 ppm
USA ACGIH	ACGIH STEL (ppm)	100 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm

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
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

#### 8.2. **Exposure controls**

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below Appropriate engineering controls

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.

: Wear suitable protective clothing. Skin and body protection

: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible Respiratory protection

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. Color Colorless. Odor Solvent.

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. **Boiling point** : No data available. Flash point : > 93 °C (> 200 °F)

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Self ignition temperature : No data available. Decomposition temperature : No data available. Flammability (solid, gas) : Not flammable. Vapor pressure : No data available. Relative vapor density at 20 °C : No data available. : 1.52 - 1.62 Relative density Solubility : No data available. Log Pow : No data available. Log Kow : No data available.

Viscosity, kinematic

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Cxidising properties

Explosive limits

No data available.

No data available.

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.

## 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 10.4. Conditions to avoid

Heat. Incompatible materials.

### 10.5. Incompatible materials

Amines. Bases. Strong oxidizing agents. Metals.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, hydrogen chloride.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

4855	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 20 mg/l/4h

Tetrachloroethylene (127-18-4)		
LD50 oral rat	2629 mg/kg	
LD50 dermal rabbit	> 3228 mg/kg	
LC50 inhalation rat	4000 ppm/4h	

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat	47635 mg/l/4h

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

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.

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

Carcinogenicity : May cause cancer.

Tetrachloroethylene (127-18-4)	
IARC group	2A - Probably carcinogenic to humans
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

## 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

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

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness

Specific target organ toxicity (repeated exposure) : Based on available data, the classifications are considered exposure.

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

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

Symptoms/injuries after inhalation : May be harmful by inhaled. May cause nervous system depression, headache, and weakness leading to unconsciousness.

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 harmful if swallowed. 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

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Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

4855	
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.

## **SECTION 14: Transport information**

In accordance with DOT

14.1. UN number

UN-No. : UN1897

14.2. UN proper shipping name

Proper Shipping Name : Tetrachloroethylene Mixture

Department of Transportation Hazard Classes : 6.1

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Hazard labels



Packing group : III

## 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.

Tetra	achl	loroe	thyle	ne (1	127-18-4)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

## Xylenes (o-, m-, p- isomers) (1330-20-7)

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 %

### 15.2. US State regulations

### 4855

State or local regulations

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

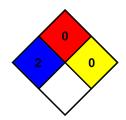
## **SECTION 16: Other information**

Indication of changes : None.

Date of issue : 08/05/2014

Other information : None.

NFPA health hazard : 2
NFPA fire hazard : 0
NFPA reactivity : 0



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