

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 09/03/2014 Revision date: 09/03/2014 Version: 1.0

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

Product identifier

: PENRAY NON-CHLORINATED QUICK DRY BRAKE CLEANER Product name

Product code 4520

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

Use of the substance/mixture : Brake 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

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 Aerosol 1 Gases Under Pressure - Compressed gas Skin irritation 2 Reproductive toxicity 2 (developmental) Specific target organ toxicity - Single exposure 3 Specific target organ toxicity - Repeated exposure 2 Aspiration hazard 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS04





GHS02

GHS08

Signal word (GHS-US)

Hazard statements (GHS-US)

: Danger

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. 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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. 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/eve 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: 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. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards

No additional information available



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2.4. Unknown acute toxicity (GHS-US)

76 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Heptane, branched, cyclic and linear	(CAS No) 426260-76-6	60 - 100	Flam. Liq. 2 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
n-Heptane	(CAS No) 142-82-5	20 - 50	Flam. Liq. 2 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
Toluene	(CAS No) 108-88-3	1 - 5	Flam. Liq. 2 Skin Irrit. 2 Repr. 2 (developmental) STOT SE 3 STOT RE 2 Asp. Tox. 1
Carbon dioxide	(CAS No) 124-38-9	1 - 5	Compressed gas

^{*} 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

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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

First-aid measures after ingestion

: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

 Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation

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

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

Symptoms/injuries after ingestion

: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

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.

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 : 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

: Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.

Explosion hazard

: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

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). 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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Do not breathe gas/mist/vapors/spray. Do not swallow. 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 locked up and out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Heptane, branched, cyclic and linear (426260-76-6)				
USA ACGIH	ACGIH TWA	Not applicable.		
USA OSHA	OSHA PEL (TWA)	Not applicable.		

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			

Toluene (108-88-3)					
USA ACGIH	ACGIH TWA (ppm)	20 ppm			
USA OSHA OSHA PEL (TWA) (ppm) 200 ppm		200 ppm			
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm			

Carbon dioxide (124-38-9)					
USA ACGIH	ACGIH TWA (ppm)	5000 ppm			
USA ACGIH	ACGIH STEL (ppm)	30000 ppm			
USA OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m³			
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm			

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 : Gas/Pressurized Liquid

Appearance : Clear
Color : Colorless
Odor : Solvent

Odor threshold No data available Hq No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point : No data available Auto-ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) Flammable Vapor pressure No data available

Relative vapor density at 20 °C : No data available 0.7825 - 0.7855 Relative density 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

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

No data available

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

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



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according to the Hazard Communication Standard (CFR29	1910.1200) HazCom 2012.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
4520	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5 mg/l/4h
n-Heptane (142-82-5)	
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	103 g/m³/4h
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 (mg/l)	28.1 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.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
	- Dubba on aranabio data, the diabolication official are not met.
Toluene (108-88-3)	
IARC group	3 - Not classifiable
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 respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
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 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	
4520	
Persistence and degradability	Not established.
12.3. Bloaccumulative potential	T
4520	Not catablished
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



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: No known ecological damage caused by this product.

Effect on the global warming

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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 : Flammable vapors may accumulate in the container. Do not incinerate closed containers.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. UN1950

14.2. UN proper shipping name

Proper Shipping Name : Aerosols, flammable

Hazard Classes 2.*

Hazard labels :

2

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.

n-Heptane (142-82-5)				
EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.				
Toluene (108-88-3)				

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

15.3. US State regulations

4520	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth
	defects or other reproductive harm.

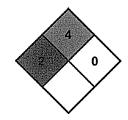
SECTION 16: Other information

Indication of changes : None.

Date of issue : 09/03/2014

Other information : None.

NFPA health hazard : 2
NFPA fire hazard : 4
NFPA reactivity : 0



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