Safety Data Sheet

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

Date of issue: 09/03/2014

Version: 1.0

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

1.1.	Product identifier	
Produc	t name	: SERVICE PRO NON-CHLORINATED, HIGH VOC BRAKE CLEANER
Product code		: SP4520
1.2. 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 1.3.

The Penray Companies, Inc.
440 Denniston Ct.
Wheeling, IL 60090
T (800) 373-6729

Manufactured for: AIOD P.O. Box 1861 Montrose, CO 81402-1861 970-249-6336

Emergency telephone number 1.4.

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 2.1.

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

Label elements 2.2.

GHS-US labelling

Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Hazard pictograms (GHS-US)

	\diamond		
GHS02	GHS04	GHS07	GHS08

: 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.
- 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/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: 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 2.3.



Safety Data Sheet

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

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 Product identifier GHS-US classification** Name % 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 Ethylbenzene (CAS No) 100-41-4 < 0.1 Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2 Asp. Tox. 1 Flam. Liq. 2 Benzene (CAS No) 71-43-2 < 0.1 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1A STOT RE 1 Asp. Tox. 1

* 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	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
4.2. Most important symptoms and effect	ts, 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	: 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.

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.	

EN (English)

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

5.2. Special hazards arising from the sul	. 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.		

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 conta	inment	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.

SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons 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	g 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.

Specific end use(s) 7.3.

Not available.

Heptane, branched, o	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/m ³	
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	
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm	

Carbon dioxide (124-38-9)		
USA ACGIH AC	CGIH TWA (ppm)	5000 ppm



Safety Data Sheet

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

Carbon dioxide (124-38-9)			
USA ACGIH	ACGIH STEL (ppm)	30000 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
Ethylbenzene (100-41-4)			
		20 ppm	

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

Benzene (71-43-2)		
USA ACGIH	ACGIH TWA (ppm)	0.5 ppm
USA ACGIH	ACGIH STEL (ppm)	2.5 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 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.
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 an	d chemical properties
Physical state	: Gas/Pressurized Liquid
Appearance	: Clear
Color	: Colorless
Odor	: Solvent
Odor threshold	: No data available
рН	: 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
Relative density	: 0.7825 - 0.7855
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available

EN (English)



Safety Data Sheet

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

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

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
SP4520	
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
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15354 mg/kg
LC50 inhalation rat (mg/l)	17.2 mg/l/4h
Benzene (71-43-2)	
LD50 oral rat	930 mg/kg
LD50 dermal rabbit	> 9.4 mL/kg
LC50 inhalation rat (ppm)	13050 - 14380 ppm/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.



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

Toluene (108-88-3)		
IARC group	3 - Not classifiable	
Ethylbenzene (100-41-4)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity	
Benzene (71-43-2)		
IARC group	1 - Carcinogenic to humans	
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens	
	In OSHA Specifically Regulated Carcinogen list	
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: Ecol	ogical information	
12.1. Toxicity		
Ecology - general	: May cause long-term adverse effects in the aquatic er	nvironment.
12.2. Persistence a	nd degradability	
SP4520		
Persistence and degra	dability Not established.	
12.3. Bioaccumulat	ive potential	
SP4520		
Bioaccumulative poten	ial Not established.	
12.4. Mobility in so	1	
No additional information	available	
12.5. Other adverse	effects	
Effect on ozone layer	: No additional information available	
Effect on the global warn	ing : No known ecological damage caused by this product.	
SECTION 13: Disp	osal considerations	
12.1 Wests treatm	ant methodo	

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

EN (English)

2.1

Safety Data Sheet

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

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 %
Ethylbenzene (100-41-4)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %
Benzene (71-43-2)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %

15.3. US State regulations

SP4520	
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 NFPA fire hazard NFPA reactivity	:	2 4 0



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