

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/26/2014 : Version:

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : JOHNSEN'S CANADIAN HI-PERFORMANCE BRAKE PARTS CLEANER 14 OZ.

Product code : 2416F

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

Use of the substance/mixture : Brake Parts Cleaner

#### 1.3. Details of the supplier of the safety data sheet

Technical Chemical Company P.O. BOX 139 Cleburne, Texas 76033 T 817-645-6088

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **Classification (GHS-US)**

Flam. Aerosol 1 H222
Compressed gas H280
Skin Irrit. 2 H315
Muta. 1B H340
Repr. 2 H361
STOT SE 3 H336
STOT RE 2 H373
Asp. Tox. 1 H304

Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



 $\Diamond$ 

GHS04





GHS02

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P211 - Do not spray on an open flame or other ignition source P251 - Pressurized container: Do not pierce or burn, even after use

P260 - Do not breathe dust,fumes,gas,mist,vapor spray P261 - Avoid breathing dust,fume,gas,mist,vapor spray P264 - Wash affected areas thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - If swallowed: Immediately call a poison control center, doctor, physician,

P302+P352 - If on skin: Wash with plenty of soap and water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.

P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment: See section 4.1 on this label

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P331 - Do NOT induce vomiting

P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P410+P403 - Protect from sunlight. Store in a well-ventilated place

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with

local, regional, national, international regulations.

#### 2.3. Other hazards

Other hazards not contributing to the classification

: Contains gas under pressure; may explode if heated.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

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

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Heptane, branched cyclic	(CAS No) 426260-76-6	43.0752 - 44.87	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
heptane	(CAS No) 142-82-5	11.2175 - 20.1915	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-hexane	(CAS No) 110-54-3	9.546 - 14.319	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
carbon dioxide, liquefied, under pressure	(CAS No) 124-38-9	1 - 5	Compressed gas, H280
2-propanol	(CAS No) 67-63-0	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
solvent naphtha(petroleum),light aliphatic	(CAS No) 64742-89-8	0 - 2.3865	Muta. 1B, H340 Asp. Tox. 1, H304
Toluene	(CAS No) 108-88-3	0.4487 - 1.7948	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

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

First-aid measures after eye contact

First-aid measures after ingestion

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Cough. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs:

Get medical advice/attention.

: Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water.

Obtain medical attention if pain, blinking or redness persist.

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries : May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after inhalation : Shortness of breath. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

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Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

: Do not use a heavy water stream. Unsuitable extinguishing media

#### Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Extremely flammable aerosol.

**Explosion hazard** : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed

containers, spreading fire and increasing risk of burns and injuries.

#### Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire

reaches explosives. Evacuate area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Aerosol level 3.

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

#### Personal precautions, protective equipment and emergency procedures

: No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove General measures

ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

: Gloves. Safety glasses. Protective equipment

**Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust,fume,gas,mist,vapor spray.

**Emergency procedures** : Ventilate area.

#### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Dam up the liquid spill.

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Additional hazards when processed Handle empty containers with care because residual vapors are flammable. Hazardous waste

due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.

No naked lights. No smoking. Use only non-sparking tools. Wash hands and other exposed Precautions for safe handling

areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid

breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area.

: Wash affected areas thoroughly after handling. Hygiene measures

#### Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating,

lighting equipment

Proper grounding procedures to avoid static electricity should be followed.

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Do not expose to

temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Keep container tightly closed.

: Strong bases. Strong acids. Incompatible products

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Storage area : Store in a well-ventilated place.

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

Follow Label Directions.

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

#### 8.1. Control parameters

Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (mg/m³)	37 mg/m³
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (mg/m³)	560
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA ACGIH	ACGIH Ceiling (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

heptane (142-82-5)		
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm

Heptane, branched cyclic (426260-76-6)		
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm

2-propanol (67-63-0)		
USA ACGIH	ACGIH TWA (mg/m³)	980 mg/m³
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (mg/m³)	1225 mg/m³
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

carbon dioxide, liquefied, under pressure (124-38-9)		
USA ACGIH	ACGIH TWA (mg/m³)	9000 mg/m³
USA ACGIH	ACGIH TWA (ppm)	5000 ppm
USA ACGIH	ACGIH STEL (mg/m³)	54000
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
Personal protective equipment

: Local exhaust venilation, vent hoods.

: Gloves. Safety glasses. Avoid all unnecessary exposure.





Hand protection

: Wear protective gloves.

Eye protection Skin and body protection : Chemical goggles or safety glasses.: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

Other information

: Do not eat, drink or smoke during use.

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#### SECTION 9: Physical and chemical properties

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

Physical state : Gas
Appearance : Liquid.

Molecular mass : 86.18 g/mol (Lowest Component)

 Color
 : Colourless.

 Odor
 : Mild odour.

 Odor threshold
 : 64 - 244 ppm 225 - 859 mg/m³

 pH
 : No data available

Relative evaporation rate (butyl acetate=1) : > 10 Relative evaporation rate (ether=1) : 1.3

Melting point : -95 °C (Lowest Component)

Freezing point : No data available

Boiling point : 69 °C (Lowest Component)

Flash point : -22 °C (Lowest Component)

Critical temperature : 234 °C (Lowest Component)

Auto-ignition temperature : 225 °C (Lowest Component)

Decomposition temperature : No data available Flammability (solid, gas) : No data available

Vapor pressure : 160 hPa (Lowest Component)
Vapor pressure at 50 °C : 540 hPa (Lowest Component)
Critical pressure : 30120 hPa (Lowest Component)

Relative vapor density at 20 °C : No data available

Relative density : 0.82
Density : 880 kg/m³

Solubility : Poorly soluble in water. Water: < 0.01 g/100ml

Ethanol: soluble Ether: soluble Acetone: soluble

Log Pow : 3.5 - 3.94 (Calculated)

Log Kow : No data available

Viscosity, kinematic : 0.455 mm²/s (20 °C)

Viscosity, dynamic : 0.0003 Pa.s (25 °C)

Explosive properties : No data available

Oxidizing properties : No data available

Explosive limits : 1.1 - 7.5 vol %

42 - 265 g/m³

9.2. Other information

Minimum ignition energy: 0.24 mJSpecific conductivity: 100 pS/mSaturation concentration: 564 g/m³VOC content: 95.5 %

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture. Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

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10.5. In	compatibl	e materia	als
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Strong acids. Strong bases.

#### **Hazardous decomposition products**

May release flammable gases. Toxic fume. . Carbon monoxide. Carbon dioxide.

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Potential Adverse human health effects and

Symptoms/injuries after inhalation

Symptoms/injuries after ingestion

Symptoms/injuries after skin contact

symptoms

Acute toxicity	: Not classified	
Toluene (108-88-3)		
LD50 oral rat	5580 mg/kg body weight	
LD50 dermal rabbit	> 5000 mg/kg body weight LD50 quoted as 14.1 mL/kg (12267 mg/kg using density of 0.87)	
LC50 inhalation rat (mg/l)	> 28.1 mg/l/4h (Rat; Air, Literature study)	
heptane (142-82-5)		
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)	
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)	
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)	
Heptane, branched cyclic (426260-76-6)		
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)	
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)	
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)	
2-propanol (67-63-0)		
LD50 oral rat	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)	
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)	
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: May cause genetic defects.Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
Toluene (108-88-3)		
IARC group	3	
2-propanol (67-63-0)		
IARC group	3	
solvent naphtha(petroleum),light aliphatic (6	64742-89-8)	
IARC group	3	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.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)	<ul> <li>May cause damage to organs through prolonged or repeated exposure. Based on available dat the classification criteria are not met May cause damage to organs through prolonged or repeated exposure</li> </ul>	
Aspiration hazard	: May be fatal if swallowed and enters airways.Based on available data, the classification criteria	

: May be fatal if swallowed and enters airways. EN (English US) 26/08/2014 6/11

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

: Shortness of breath. May cause drowsiness or dizziness.

are not met

: Causes skin irritation.

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Toluene (108-88-3)	
LC50 fish 1	24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	84 mg/l (24 h; Daphnia magna; Locomotor effect)
LC50 fish 2	13 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)

heptane (142-82-5)	
LC50 fish 1	375 mg/l (96 h; Tilapia mosambica; Nominal concentration)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	1.5 mg/l (48 h; Daphnia magna)
LC50 fish 2	> 100 mg/l (96 h; Oncorhynchus kisutch)
TLM fish 1	4924 mg/l (48 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	> 200 mg/l (Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	1.5 mg/l (8 h; Algae; Photosynthesis)

2-propanol (67-63-0)	
LC50 fish 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)

carbon dioxide, liquefied, under pressure (124-38-9)	
LC50 fish 1	35 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)
LC50 fish 2	60 - 240 mg/l (12 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)

#### 12.2. Persistence and degradability

JOHNSEN'S CANADIAN HI-PERFORMANCE BRAKE PARTS CLEANER 14 OZ.	
Persistence and degradability	Not established.

Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	2.15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.52 g O <sub>2</sub> /g substance
ThOD	3.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.69 % ThOD

heptane (142-82-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	1.92 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.06 g O <sub>2</sub> /g substance
ThOD	3.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	> % ThOD (5 day(s)) > 0.5

#### Heptane, branched cyclic (426260-76-6) Persistence and degradability May cause long-term adverse effects in the environment.

2-propanol (67-63-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.40 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.49 % ThOD

carbon dioxide, liquefied, under pressure (124-38-9)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.

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carbon dioxide, liquefied, under pressure (12-	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
n-hexane (110-54-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
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JOHNSEN'S CANADIAN HI-PERFORMANCE E	
Log Pow	3.5 - 3.94 (Calculated)
Bioaccumulative potential	Not established.
Toluene (108-88-3)	
BCF fish 1	13.2 (Anguilla japonica)
BCF fish 2	90 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	380 (24 h; Chlorella sp.; Fresh weight)
BCF other aquatic organisms 2	4.2 (Mytilus edulis; Fresh weight)
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
heptane (142-82-5)	
BCF other aquatic organisms 1	552
Log Pow	4.66 (Experimental value; 4.5; Literature)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
Hentene branched evelie (426260.76.6)	
Heptane, branched cyclic (426260-76-6)	Not established
Bioaccumulative potential	Not established.
2-propanol (67-63-0)	
Log Pow	0.05 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
carbon dioxide, liquefied, under pressure (12	4-38-9)
Log Pow	0.83 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
n-hexane (110-54-3)	
Bioaccumulative potential	Not established.
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12.4. Mobility in soil	
Toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
heptane (142-82-5)	0.000 N/v. (00.00)
Surface tension	0.020 N/m (20 °C)
2-propanol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
40.5	
12.5. Other adverse effects	A cold valence to the environment
Other information	: Avoid release to the environment.
<b>SECTION 13: Disposal considerations</b>	
13.1. Waste treatment methods	
	: Dispose in a safe manner in accordance with local/national regulations. Container under
	pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Additional information	Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container.
Ecology - waste materials	Avoid release to the environment. Hazardous waste due to toxicity.

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#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1950, Aerosols, 2.1, Limited Quantity
ICAO/IATA (air): UN1950, Aerosols, 2.1, Limited Quantity
IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity

Special Provisions: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

#### 14.2. UN proper shipping name

DOT Proper Shipping Name : Aerosols

flammable, (each not exceeding 1 L capacity)
: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT)

: 2.1 - Flammable gas



DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Packaging Non Bulk (49 CFR 173.xxx) : None

DOT Packaging Bulk (49 CFR 173.xxx) : None

#### 14.3. Additional information

Other information : No supplementary information available.

#### **Overland transport**

No additional information available

#### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) except

Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

JOHNSEN'S CANADIAN HI-PERFORMANCE BRAKE PARTS CLEANER 14 OZ.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard

	Toluene (108-88-3)	
	Listed on United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory	
	SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
		Fire hazard
		Immediate (acute) health hazard

Heptane, branched cyclic (426260-76-6)  Not listed on the United States TSCA (Toxic Substances Control Act) inventory	

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2-propanol (67-63-0)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard

#### 15.2. International regulations

#### **CANADA**

JOHNSEN'S CANADIAN HI-PERFORMANCE BRAKE PARTS CLEANER 14 OZ.		
WHMIS Classification	Class B Division 5 - Flammable Aerosol Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Toluene (108-88-3)		
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Heptane, branched cyclic (426260-76-6)		
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
2-propanol (67-63-0)		
WHMIS Classification	Class B Division 2 - Flammable Liquid	

#### **EU-Regulations**

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45 Muta.Cat.2; R46 Repr.Cat.3; R62 Repr.Cat.3; R63 F; R11 Xn; R48/20 Xi; R38

Full text of R-phrases: see section 16

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

JOHNSEN'S CANADIAN HI-PERFORMANCE BRAKE PARTS CLEANER 14 OZ.()	
State or local regulations	U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

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

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

#### **SECTION 16: Other information**

Indication of changes : Revision - See : \*.

Other information : None.

Full text of H-phrases: see section 16:

on in philaded. decident to.	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Compressed gas	Gases under pressure Compressed gas
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Aerosol 1	Flammable aerosol Category 1

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Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 2	Flammable liquids Category 2
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H222	Extremely flammable aerosol
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

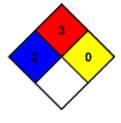
medical attention is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 1 Slight Hazard

Personal Protection : B

SDS US (GHS HazCom 2012) - Technical Chemical

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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