

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11/21/2016 Supersedes:05/18/2015

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<b>SECTION 1: Identification of</b>	the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
Trade name	: JOHNSEN'S NON-CHLORINATED BRAKE CLEANER 10 OZ.	
Product code	: 2418	
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	ne safety data sheet	
Technical Chemical Company P.O. BOX 139 Cleburne, Texas 76033		
T 817-645-6088		
1.4. Emergency telephone num	iber	
Emergency number	: CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)	
<b>SECTION 2: Hazards identified</b>	cation	
2.1. Classification of the subst		
GHS-US classification		
Flam. Aerosol 2       H223         Compressed gas       H280         Acute Tox. 3 (Oral)       H301         Acute Tox. 3 (Dermal)       H311         Skin Irrit. 2       H315         Eye Irrit. 2A       H319         Repr. 2       H361         STOT SE 1       H370         STOT RE 2       H373		
Full text of H statements : see section	16	
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	HS02 GHS04 GHS06 GHS07 GHS08	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	<ul> <li>H223 - Flammable aerosol</li> <li>H280 - Contains gas under pressure; may explode if heated</li> <li>H301+H311 - Toxic if swallowed or in contact with skin</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H336 - May cause drowsiness or dizziness</li> <li>H361 - Suspected of damaging fertility or the unborn child</li> <li>H370 - Causes damage to organs</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure</li> </ul>	
Precautionary statements (GHS-US)	<ul> <li>P201 - Obtain special instructions</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P210 - Keep away from heat,sparks,open flames,hot surfaces No smoking</li> <li>P211 - Do not spray on an open flame or other ignition source</li> <li>P251 - Pressurized container: Do not pierce or burn, even after use</li> <li>P260 - Do not breathe dust,fumes,gas,mist,vapor spray</li> <li>P261 - Avoid breathing dust,fume,gas,mist,vapor spray</li> <li>P264 - Wash affected areas thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves,protective clothing,eye protection,face protection</li> <li>P301+P310 - If swallowed: Immediately call a poison control center, doctor,physician,</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> </ul>	

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor 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 SDS P322 - Specific treatment (see on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P361 - Take off immediately all contaminated clothing P362+P364 - Take off contaminated clothing and wash it 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

: Contains gas under pressure; may explode if heated.

Other hazards not contributing to the classification

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	%	GHS-US classification
Acetone	(CAS No) 67-64-1	30 - 50	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methanol	(CAS No) 67-56-1	10 - 30	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
Toluene	(CAS No) 108-88-3	10 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Heptane, Branched Cyclic	(CAS No) 426260-76-6	12.24 - 12.75	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Carbon Dioxide, Liquefied, Under Pressure	(CAS No) 124-38-9	5 - 10	Compressed gas, H280
n-Heptane	(CAS No) 142-82-5	3.1875 - 5.7375	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### The exact percentage is a trade secret.

SECTION 4: First aid measures	
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. Call a POISON CENTER or doctor/physician.
First-aid measures after inhalation	: Cough. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Immediately call a poison center or doctor/physician. 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.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Immediately call a poison center or doctor/physician. Obtain medical attention if pain, blinking or redness persist. Direct contact with the eyes is likely to be irritating.

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First-aid measures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.
4.2. Most important sympt	oms and effects	both acute and delayed
Symptoms/injuries	:	Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation	n :	Shortness of breath. May cause drowsiness or dizziness.
Symptoms/injuries after skin cont	act :	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye conta	act :	Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.
Symptoms/injuries after ingestion	:	Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Flammable aerosol.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. 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 2.
SECTION 6: Accidental release mea	sures
	uipment and emergency procedures
General measures	: No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Safety glasses.
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.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notif	y authorities if liquid enters sewers or public waters.
6.3. Methods and material for containing	ent and cleaning up
For containment	: Dam up the liquid spill. Plug the leak, cut off the supply. Contain released substance, pump into suitable containers.
Methods for cleaning up	: Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	: Wash hands and other exposed 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. Avoid breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area. Do not breathe dust,fumes,gas,mist,vapor spray.

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Hygiene measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	: 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.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage area	: Store in a well-ventilated place.
7.3. Specific end use(s)	

Follow Label Directions.

Follow Laber Directions.		
SECTION 8: Exposi	ure controls/personal protection	
8.1. Control parame	eters	
Benzene (71-43-2)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	5 ppm
USA ACGIH	ACGIH Ceiling (ppm)	25 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
Toluene (108-88-3)	·	· ·
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	75 mg/m³
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
n-Heptane (142-82-5)	1	
USA ACGIH	ACGIH TWA (ppm)	400 ppm (Heptane, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (ppm)	500 ppm (Heptane, all isomers; USA; Short time value; TLV - Adopted Value)
Heptane, Branched Cy	clic (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
Carbon Dioxide, Lique	fied, Under Pressure (124-38-9)	·
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	5000 ppm (Carbon dioxide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	54000
USA ACGIH	ACGIH STEL (ppm)	30000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (mg/m³)	328 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

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Acetone (67-64-1)		
USA ACGIH	ACGIH TWA (mg/m³)	1188 mg/m³
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	1782 mg/m³
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

### 8.2. Exposure controls

Appropriate engineering controls

- : Local exhaust venilation, vent hoods . Ensure good ventilation of the work station.
- Personal protective equipment
- : Gloves. Safety glasses. Avoid all unnecessary exposure.

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Materials for protective clothing	: GIVE EXCELLENT RESISTANCE:
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Consumer exposure controls	: Avoid contact during pregnancy/while nursing.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

SECTION 9. Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Gas	
Appearance	: Liquid.	
Color	: Colourless to light yellow.	
Odor	: Solvent-like odour.	
Odor threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: < -78 °C (Lowest Component-Acetone)	
Boiling point	: 56.1 °C (Lowest Component-Acetone)	
Flash point	: -18 °C (Lowest Component-Acetone)	
Auto-ignition temperature	: 385 °C (Lowest Component-Acetone)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: 0.82	
Solubility	: Poorly soluble in water.	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: Heating may cause a fire or explosion.	
Oxidizing properties	: No data available	
Explosion limits	: No data available	
9.2. Other information		
VOC content	: 45 %	
Gas group	: Compressed gas	

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

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.

10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

Benzene (71-43-2)	
LD50 oral rat	> 930 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 8240 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit)
LC50 inhalation rat (mg/l)	43.767 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	13700 ppm/4h (Rat; Experimental value)
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)
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)
n-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)
Methanol (67-56-1)	
LD50 oral rat	>= 2528 mg/kg body weight application as 50% aqueous solution
LD50 dermal rabbit	17100 mg/kg corresponding to 20 ml/kg bw according to the authors
LC50 inhalation rat (mg/l)	128.2 mg/l/4h Air
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
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Benzene (71-43-2)		
IARC group	1	
Toluene (108-88-3)		
IARC group	3	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity (single exposure)	: Causes damage to organs. May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Toxic if swallowed. Toxic in contact with skin.	
Symptoms/injuries after inhalation	: Shortness of breath. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.	
Symptoms/injuries after eye contact	: Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.	
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.	

## **SECTION 12: Ecological information**

### Toxicity 12.1.

Benzene (71-43-2)	
LC50 fish 1	5.3 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	10 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
Threshold limit algae 1	100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
n-Heptane (142-82-5)	
EC50 Daphnia 1	0.2 mg/l (LC50; Other; 96 h; Chaetogammarus marinus; Semi-static system; Salt water; Experimental value)
Carbon Dioxide, Liquefied, Under Pressure	(124-38-9)
LC50 fish 1	35 mg/l (LC50; 96 h; Salmo gairdneri)
Acetone (67-64-1)	·
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)
Acetone (67-64-1)	
LC50 fish 1	6210 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1	8800 mg/l (48 h; Daphnia pulex)
LC50 fish 2	5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)
TLM fish 2	> 1000 ppm (96 h; Pisces)
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)
2.2. Persistence and degradability	
JOHNSEN'S NON-CHLORINATED BRAKE	CLEANER 10 OZ.
Persistence and degradability	Not established.
Benzene (71-43-2)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	2.18 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.15 g O <sub>2</sub> /g substance
ThOD	3.10 g O <sub>2</sub> /g substance

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Benzene (71-43-2) BOD (% of ThOD) Toluene (108-88-3)		
Toluene (108-88-3)		
· · · · ·	0.70	
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	
n-Heptane (142-82-5)		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.	
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)	> 0.5 (5 days; Literature study)	
Heptane, Branched Cyclic (426260-76-6)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
Carbon Dioxide, Liquefied, Under Pressure (1		
Persistence and degradability	Biodegradability: not applicable. Not applicable (gas).	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
Acetone (67-64-1)	Not established	
Persistence and degradability	Not established.	
Methanol (67-56-1)	1	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance	
ThOD	1.5 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.8 (Literature study)	
Acetone (67-64-1)		
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. Not established.	
Biochemical oxygen demand (BOD)	1.43 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.92 g O <sub>2</sub> /g substance	
ThOD	2.20 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	(20 day(s)) 0.872	
12.3. Bioaccumulative potential		
JOHNSEN'S NON-CHLORINATED BRAKE CL	EANER 10 OZ.	
Bioaccumulative potential	Not established.	
Benzene (71-43-2)		
	19 (BCF)	
BCF fish 1 BCF fish 2	< 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system: Fresh water: Experimental value)	
BCF fish 1 BCF fish 2	Flow-through system; Fresh water; Experimental value)	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	Flow-through system; Fresh water; Experimental value) 30 (BCF; 24 h; Chlorella sp.)	
BCF fish 1 BCF fish 2	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential	Flow-through system; Fresh water; Experimental value) 30 (BCF; 24 h; Chlorella sp.)	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Toluene (108-88-3)	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Toluene (108-88-3) BCF fish 2	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential <b>Toluene (108-88-3)</b> BCF fish 2 Log Pow	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential <b>Toluene (108-88-3)</b> BCF fish 2 Log Pow Bioaccumulative potential	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential <b>Toluene (108-88-3)</b> BCF fish 2 Log Pow Bioaccumulative potential <b>n-Heptane (142-82-5)</b>	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential <b>Toluene (108-88-3)</b> BCF fish 2 Log Pow Bioaccumulative potential <b>n-Heptane (142-82-5)</b> BCF other aquatic organisms 1	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential <b>Toluene (108-88-3)</b> BCF fish 2 Log Pow Bioaccumulative potential <b>n-Heptane (142-82-5)</b> BCF other aquatic organisms 1 Log Pow	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1         BCF fish 2         BCF other aquatic organisms 1         Log Pow         Bioaccumulative potential         Toluene (108-88-3)         BCF fish 2         Log Pow         Bioaccumulative potential         n-Heptane (142-82-5)         BCF other aquatic organisms 1         Log Pow         Bioaccumulative potential	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	
BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential <b>Toluene (108-88-3)</b> BCF fish 2 Log Pow Bioaccumulative potential <b>n-Heptane (142-82-5)</b> BCF other aquatic organisms 1 Log Pow	Flow-through system; Fresh water; Experimental value)         30 (BCF; 24 h; Chlorella sp.)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500).	

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Carbon Dioxide, Liquefied, Under Pressure (124-38-9)		
Log Pow	0.83 (Experimental value)	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Acetone (67-64-1)		
Bioaccumulative potential	Not established.	
Methanol (67-56-1)		
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Acetone (67-64-1)		
BCF fish 1	0.69 (Pisces)	
BCF other aquatic organisms 1	3	
Log Pow	-0.24 (Test data)	
Bioaccumulative potential	Not bioaccumulative. Not established.	
2.4. Mobility in soil		
Benzene (71-43-2)		
Surface tension	0.029 N/m (20 °C)	
Log Koc	Koc,134.1; QSAR	
Toluene (108-88-3)		
Surface tension	0.03 N/m (20 °C)	
n-Heptane (142-82-5)		
Surface tension	0.019 N/m (25 °C; 0.020 N/m; 20 °C)	
Log Koc	log Koc,SRC PCKOCWIN v2.0; 2.38; Calculated value	
Methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value	
Acetone (67-64-1)		
Surface tension	0.0237 N/m (20 °C)	
2.5. Other adverse effects		
Other information : Avoid release to the environment.		

13.1. Waste treatment methods	
Waste disposal recommendations	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	: Flammable vapors may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
SECTION 14: Transport informat	ion

### 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 (Marine Pollutant-Heptane), Limited Quantity
Special Provisions:	N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Aerosols Flammable, (each not exceeding 1 L capacity)
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
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

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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
Subsidiary risks (IMDG)	: Marine Pollutant-Heptane
Air transport	
DOT Quantity Limitations Passenger aircraft/rai (49 CFR 173.27)	l : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	∋ : 150 kg
SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	

Torri oo r cucrar regulatorio	IS. I. OS Federal regulations		
JOHNSEN'S NON-CHLORINATED BRAKE CLEANER 10 OZ.			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard		
Benzene (71-43-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313			
Toluene (108-88-3)			
Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard		
Heptane, Branched Cyclic (426260-76-6)			
Listed on the United States TSCA (Toxic Substar	ces Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
Carbon Dioxide, Liquefied, Under Pressure (12	24-38-9)		
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard Immediate (acute) health hazard		
Methanol (67-56-1)			
Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on the United States SARA Section 355			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard		
Acetone (67-64-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard		

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## **15.2. International regulations**

### CANADA

CANADA		
JOHNSEN'S NON-CHLORINATED BRAKE CLEANER 10 OZ.		
WHMIS Classification	Class B Division 5 - Flammable Aerosol	
Benzene (71-43-2)		
Listed on the Canadian DSL (Domestic Substances List)		
Toluene (108-88-3)		
Listed on the Canadian DSL (Domestic Substance	es List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - 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	
Methanol (67-56-1)		
Listed on the Canadian DSL (Domestic Substanc	es List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Acetone (67-64-1)		
Listed on the Canadian DSL (Domestic Substance	es List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

### **EU-Regulations**

Toluene (108-88-3)				
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)				
Heptane, Branched Cyclic (426260-76-6)				
Methanol (67-56-1)				
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)				
Acetone (67-64-1)				
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)				

## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.3; R63 F; R11 T; R39/23/24/25 Xn; R20/21/22 Xn; R48/20 Xi; R36/38 Full text of R-phrases: see section 16

### 15.2.2. National regulations

## Benzene (71-43-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory		
Toluene (108-88-3)		
Heptane, Branched Cyclic (426260-76-6)		
All components are either listed on the US TSCA Inventory, or are not regulated under TSCA under 40 CFR 720.30.		

### Methanol (67-56-1)

Listed on the Canadian IDL (Ingredient Disclosure List)

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## Acetone (67-64-1)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)			
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)			
Listed on KECI (Korean Existing Chemicals Inventory)			
Listed on the AICS (Australian Inventory of Chemical Substances)			
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory			
Listed on the Korean ECL (Existing Chemicals List)			

## 15.3. US State regulations

	JOHNSEN'S NON-CHLORINATED BRAKE CLEANER 10 OZ.						
U.S California - Proposition 65 - Carcinogens List		No					
U.S California - Proposition 65 - Developmental Toxicity		No					
U.S California - Proposition 65 - Reproductive Toxicity - Female		No					
U.S California - Proposition 65 - Reproductive Toxicity - Male		No					
State or local regulations		U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)					
Benzene (71-43-2)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
Yes	Yes	No	Yes				
Toluene (108-88-3)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
No	Yes	No	No				
n-Heptane (142-82-5)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
No	No	No	No				
Heptane, Branched Cyclic	(426260-76-6)			•			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
No	No	No	No				
Carbon Dioxide, Liquefied, Under Pressure (124-38-9)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
No	No	No	No				
Acetone (67-64-1)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
No	No	No	No				
Methanol (67-56-1)	Methanol (67-56-1)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)			
No	Yes	No	No				

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Acetone (67-64-1)					
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level	
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity -		
			Male		
Yes	No	No	No		
Benzene (71-43-2)					
State or local regulations					
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) U.S Pennsylvania - RTK (Right to Know) List New Jersey Right-to-Know					
Toluene (108-88-3)					
State or local regulations					
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) U.S New Jersey - Special Health Hazards Substances List New Jersey Right-to-Know U.S Massachusetts - Right To Know List Rhode Island Right to Know U.S Michigan - Critical Materials List U.S New Jersey - Environmental Hazardous Substances List U.S New Jersey - Environmental Hazardous Substances List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List					
Methanol (67-56-1)					
State or local regulations					
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) New Jersey Right-to-Know Florida Right to Know U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List					
Acetone (67-64-1)					
State or local regulations					
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) Benzene 71-43-2 U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List					
SECTION 16: Other information					
Other information	: None.				
Full text of H-phrases:	. NONE.				
H223		Flam	nable aerosol		
H224			mely flammable liquid and vapor		
H225			y flammable liquid and vapor		
H280			ains gas under pressure; may exp	lode if heated	
H301			if swallowed		
H304			be fatal if swallowed and enters ai	rways	
H311		-	in contact with skin	-	
H315					
H319			es serious eye irritation		
H331			if inhaled		
11000					

H361Suspected of damaging fertility or the unborn childH370Causes damage to organsH373May cause damage to organs through prolonged or repeated<br/>exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effectsH412Harmful to aquatic life with long lasting effects

May cause drowsiness or dizziness

NFPA health hazard

H336

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

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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	: В

SDS US (GHS HazCom 2012) - TCC

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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