

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : JOHNSEN'S CARBURETOR CLEANER 16.25 OZ.
Product code : 4642C

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

Use of the substance/mixture : Carburetor 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, 1-703-527-3887 (International)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (GHS-US)**

Flam. Aerosol 2 H223
Compressed gas H280
Skin Irrit. 2 H315
Eye Irrit. 2A H319
Repr. 2 H361
STOT SE 1 H370
STOT SE 3 H336

Full text of H-phrases: see section 16

2.2. Label elements**GHS-US labeling**

Hazard pictograms (GHS-US) :



GHS02

GHS04

GHS07

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H223 - Flammable aerosol
H280 - Contains gas under pressure; may explode if heated
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H361 - Suspected of damaging fertility or the unborn child
H370 - Causes damage to organs

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
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, eye protection, face protection
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
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.
P321 - Specific treatment: See section 4.1 on SDS
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention

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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) |
|---|----------------------|-----------------|--|
| Acetone | (CAS No) 67-64-1 | 70 - 85 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Carbon Dioxide, Liquefied, Under Pressure | (CAS No) 124-38-9 | 9-15 | Compressed gas, H280 |
| Heptane, Branched Cyclic | (CAS No) 426260-76-6 | 5.7504 - 5.99 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| Methanol | (CAS No) 67-56-1 | 1 - 5 | 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 |
| Heptane | (CAS No) 142-82-5 | 1.4975 - 2.6955 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Toluene | (CAS No) 108-88-3 | 0.0599 - 0.2396 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |

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.

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.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist. Direct contact with the eyes is likely to be irritating.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

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

Symptoms/injuries after inhalation : May cause irritation or asthma-like symptoms. Shortness of breath.

Symptoms/injuries after skin contact : May cause slight irritation . Itching. Red skin. Causes skin irritation.

Symptoms/injuries after eye contact : Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.

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

No additional information available

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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 substance 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 measures

6.1. Personal precautions, protective equipment 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. 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. Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.
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. Do not breathe dust, fumes, gas, mist, vapor spray.
Hygiene measures : Wash contaminated clothing before reuse. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including 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 : Keep container closed when not in use. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.
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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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| 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 ³) | 75 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 20 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 |

| Carbon Dioxide, Liquefied, Under Pressure (124-38-9) | | |
|---|-------------------------------------|------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 9000 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 5000 ppm |
| USA ACGIH | ACGIH STEL (mg/m ³) | 54000 |
| USA ACGIH | ACGIH STEL (ppm) | 30000 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 9000 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 5000 ppm |

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

| Methanol (67-56-1) | | |
|---------------------------|-------------------------------------|-----------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 262 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (mg/m ³) | 328 mg/m ³ |
| USA ACGIH | ACGIH STEL (ppm) | 250 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 260 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

8.2. Exposure controls

Appropriate engineering controls

: Local exhaust ventilation, vent hoods . Ensure good ventilation of the work station.

Personal protective equipment

: Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection

: Wear protective gloves.

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| | |
|--------------------------|--|
| 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. |
| Other information | : Do not eat, drink or smoke during use. |

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 | : Acetone odour. Solvent-like odour. |
| Odor threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : -95 °C (Lowest Component) |
| Freezing point | : No data available |
| Boiling point | : 56 °C (Lowest Component) |
| Flash point | : -18 °C (Lowest Component) |
| Critical temperature | : 235 °C (Lowest Component) |
| Auto-ignition temperature | : 465 °C (Lowest Component) |
| 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 | : 0.783 |
| Solubility | : Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in dimethyl ether. Soluble in petroleum spirit. Soluble in chloroform. Soluble in dimethylformamide. Soluble in oils/fats. |
| 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 |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-------------|-----------------|
| VOC content | : 9.6 % |
| Gas group | : Liquefied gas |

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

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Acute toxicity : Not classified

| 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) |

| 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) |

| 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) |

| 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 |

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

| 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) : Not classified
Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation : May cause irritation or asthma-like symptoms. Shortness of breath.
Symptoms/injuries after skin contact : May cause slight irritation . Itching. Red skin. Causes skin irritation.
Symptoms/injuries after eye contact : Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.

SECTION 12: Ecological information

12.1. Toxicity

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| Benzene (71-43-2) | |
|--------------------------|--|
| LC50 fish 1 | 5.3 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| EC50 Daphnia 1 | 18 mg/l (24 h; <i>Daphnia magna</i>) |
| LC50 fish 2 | 15.1 mg/l (96 h; <i>Pimephales promelas</i>) |
| EC50 Daphnia 2 | 10 mg/l (48 h; <i>Daphnia magna</i>) |
| TLM fish 1 | 22.5 mg/l (96 h; <i>Lepomis macrochirus</i> ; Soft water) |
| TLM fish 2 | 32 mg/l (96 h; <i>Pimephales promelas</i> ; Hard water) |
| Threshold limit algae 1 | 100 mg/l (72 h; <i>Pseudokirchneriella subcapitata</i> ; GLP) |
| Threshold limit algae 2 | 50 mg/l (24 h; <i>Phaeodactylum</i> ; Photosynthesis) |

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

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

| Acetone (67-64-1) | |
|---|---|
| TLM fish 1 | 13000 ppm (96 h; <i>Gambusia affinis</i> ; 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 (<i>Scenedesmus quadricauda</i> ; pH = 7) |
| Threshold limit algae 2 | 3400 mg/l (48 h; <i>Chlorella</i> sp.) |

| Carbon Dioxide, Liquefied, Under Pressure (124-38-9) | |
|---|---|
| LC50 fish 1 | 35 mg/l (96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>); Lethal) |
| LC50 fish 2 | 60 - 240 mg/l (12 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>); Lethal) |

| Acetone (67-64-1) | |
|---|---|
| LC50 fish 1 | 6210 mg/l (96 h; <i>Pimephales promelas</i> ; Nominal concentration) |
| EC50 Daphnia 1 | 8800 mg/l (48 h; <i>Daphnia pulex</i>) |
| LC50 fish 2 | 5540 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| TLM fish 1 | 13000 ppm (96 h; <i>Gambusia affinis</i> ; 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 (<i>Scenedesmus quadricauda</i> ; pH = 7) |
| Threshold limit algae 2 | 3400 mg/l (48 h; <i>Chlorella</i> sp.) |

| Methanol (67-56-1) | |
|---|--|
| LC50 fish 1 | 15400 mg/l (96 h; <i>Lepomis macrochirus</i> ; Lethal) |
| EC50 Daphnia 1 | > 10000 mg/l (48 h; <i>Daphnia magna</i> ; Lethal) |
| LC50 fish 2 | 10800 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| EC50 Daphnia 2 | 24500 mg/l (48 h; <i>Daphnia magna</i> ; Locomotor effect) |
| Threshold limit other aquatic organisms 1 | 6600 mg/l (16 h; <i>Pseudomonas putida</i>) |
| Threshold limit algae 1 | 530 mg/l (192 h; <i>Microcystis aeruginosa</i>) |
| Threshold limit algae 2 | 8000 mg/l (168 h; <i>Scenedesmus quadricauda</i>) |

12.2. Persistence and degradability

| JOHNSEN'S CARBURETOR CLEANER 16.25 OZ. | |
|---|------------------|
| Persistence and degradability | Not established. |

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| 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 ₂ /g substance |
| Chemical oxygen demand (COD) | 2.15 g O ₂ /g substance |
| ThOD | 3.10 g O ₂ /g substance |
| BOD (% of ThOD) | 0.70 % ThOD |

| 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 ₂ /g substance |
| Chemical oxygen demand (COD) | 2.52 g O ₂ /g substance |
| ThOD | 3.13 g O ₂ /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 ₂ /g substance |
| Chemical oxygen demand (COD) | 0.06 g O ₂ /g substance |
| ThOD | 3.52 g O ₂ /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. |

| Acetone (67-64-1) | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| Carbon Dioxide, Liquefied, Under Pressure (124-38-9) | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. Not applicable (gas). |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| 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 ₂ /g substance |
| Chemical oxygen demand (COD) | 1.92 g O ₂ /g substance |
| ThOD | 2.20 g O ₂ /g substance |
| BOD (% of ThOD) | (20 day(s)) 0.872 |

| Methanol (67-56-1) | |
|---------------------------------|---|
| 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 ₂ /g substance |
| Chemical oxygen demand (COD) | 1.42 g O ₂ /g substance |
| ThOD | 1.5 g O ₂ /g substance |
| BOD (% of ThOD) | 0.8 % ThOD |

12.3. Bioaccumulative potential

| JOHNSEN'S CARBURETOR CLEANER 16.25 OZ. | |
|---|------------------|
| Bioaccumulative potential | Not established. |

| Benzene (71-43-2) | |
|-------------------------------|--|
| BCF fish 1 | 19 <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| BCF fish 2 | < 10 (3 days; <i>Leuciscus idus</i>) |
| BCF other aquatic organisms 1 | 30 (24 h; <i>Chlorella</i> sp.; Fresh weight) |
| Log Pow | 2.13 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| Toluene (108-88-3) | |
|-------------------------------|--|
| BCF fish 1 | 13.2 (<i>Anguilla japonica</i>) |
| BCF fish 2 | 90 (72 h; <i>Leuciscus idus</i>) |
| BCF other aquatic organisms 1 | 380 (24 h; <i>Chlorella</i> sp.; Fresh weight) |
| BCF other aquatic organisms 2 | 4.2 (<i>Mytilus edulis</i> ; Fresh weight) |

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| Toluene (108-88-3) | |
|---------------------------|--|
| 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 ($4 \geq \text{Log Kow} \leq 5$). |

| Heptane, Branched Cyclic (426260-76-6) | |
|---|------------------|
| Bioaccumulative potential | Not established. |

| Acetone (67-64-1) | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Carbon Dioxide, Liquefied, Under Pressure (124-38-9) | |
|---|----------------------------------|
| Log Pow | 0.83 (Experimental value) |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

| 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. |

| Methanol (67-56-1) | |
|---------------------------|--|
| BCF fish 1 | < 10 (72 h; Leuciscus idus) |
| BCF fish 2 | 1 (72 h; Cyprinus carpio; Blood) |
| Log Pow | -0.77 (Experimental value; Other) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

| Benzene (71-43-2) | |
|--------------------------|-------------------|
| Surface tension | 0.029 N/m (20 °C) |

| Toluene (108-88-3) | |
|---------------------------|------------------|
| Surface tension | 0.03 N/m (20 °C) |

| Heptane (142-82-5) | |
|---------------------------|-------------------|
| Surface tension | 0.020 N/m (20 °C) |

| Acetone (67-64-1) | |
|--------------------------|--------------------|
| Surface tension | 0.0237 N/m (20 °C) |

| Methanol (67-56-1) | |
|---------------------------|-------------------|
| Surface tension | 0.023 N/m (20 °C) |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

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.

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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 (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)
Department of Transportation (DOT) Hazard Classes : 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.
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/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

SECTION 15: Regulatory information

15.1. US Federal regulations

JOHNSEN'S CARBURETOR CLEANER 16.25 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)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
|-------------------------------------|---|

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| Acetone (67-64-1) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard |

| Methanol (67-56-1) | |
|---|---|
| Listed on United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard |

15.2. International regulations

CANADA

| JOHNSEN'S CARBURETOR CLEANER 16.25 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 |

| Acetone (67-64-1) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| Methanol (67-56-1) | |
|---------------------------|---|
| 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 |

EU-Regulations

| Toluene (108-88-3) | |
|--|--|
| 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 Regulation (EC) No. 1272/2008 [CLP]

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

F; R11
Xn; R20/21/22
Xn; R68/20/21/22
Xi; R36

Full text of R-phrases: see section 16

15.2.2. National regulations

| 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. | |

| 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) | |

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15.3. US State regulations

JOHNSEN'S CARBURETOR CLEANER 16.25 OZ.

State or local regulations U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

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 | No significance risk level (NSRL) |
|---|---|---|---|-----------------------------------|
| Yes | | | | |

Toluene (108-88-3)

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

Acetone (67-64-1)

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: see section 16:

| | |
|-------------------------------------|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| 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 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 2 | Flammable aerosol Category 2 |
| Flam. Liq. 1 | Flammable liquids Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| 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 1 | Specific target organ toxicity (single exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H223 | Flammable aerosol |
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor |
| H280 | Contains gas under pressure; may explode if heated |
| H301 | Toxic if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H311 | Toxic in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H336 | May cause drowsiness or dizziness |
| H361 | Suspected of damaging fertility or the unborn child |
| H370 | Causes damage to organs |
| 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 |
| H412 | Harmful to aquatic life with long lasting effects |

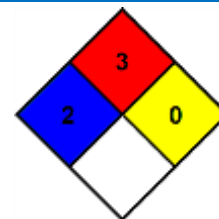
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| | |
|--------------------|--|
| NFPA health hazard | : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. |
| NFPA fire hazard | : 3 - Liquids and solids that 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) - 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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