

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/23/2014

Version:

1/13

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture Trade name : JOHNSEN'S NON-CHLORINATATED BRAKE PARTS CLEANER CALIFORNIA 5 GALLON Product code : 2415C Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Brake Parts Cleaner Details of the supplier of the safety data sheet 1.3. **Technical Chemical Company** P.O. BOX 139 Cleburne, Texas 76033 T 817-645-6088 **Emergency telephone number** 1.4. Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) **SECTION 2: Hazards identification Classification of the substance or mixture** 2.1. **Classification (GHS-US)** Flam. Liq. 2 H225 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) GHS07 GHS02 GHS08 Signal word (GHS-US) : Danger H225 - Highly flammable liquid and vapor Hazard statements (GHS-US) 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 P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, ventilating, lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge 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 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower 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 05/11/2014 EN (English US)

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|         |                                 | <ul> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.</li> <li>P321 - Specific treatment: See section 4.1 on SDS</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362 - Take off contaminated clothing and wash before reuse</li> <li>P370+P378 - In case of fire: See Section 5.1 Extinguishing Media</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.</li> </ul> |
|---------|---------------------------------|---|
| 2.3.    | Other hazards                   |   |
| Other h | nazards not contributing to the | : None under normal conditions.   |

irds not contributing to the classification

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

6.6 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)6.6 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

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

#### Substance 3.1.

#### Not applicable

#### 3.2. **Mixture**

| Name                     | Product identifier   | %             | Classification (GHS-US)   |
|--------------------------|----------------------|---------------|---|
| Acetone                  | (CAS No) 67-64-1     | 85 - 95       | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336  |
| Heptane, Branched Cyclic | (CAS No) 426260-76-6 | 6.336 - 6.6   | Flam. Liq. 1, H224<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412                                      |
| Methanol                 | (CAS No) 67-56-1     | 1 - 5         | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:dust,mist),<br>H331<br>STOT SE 1, H370 |
| Heptane                  | (CAS No) 142-82-5    | 1.65 - 2.97   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410             |
| Toluene                  | (CAS No) 108-88-3    | 0.066 - 0.264 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304                             |

| SECTION 4: First aid measures         |   |
|---------------------------------------|---|
| 4.1. Description of first aid measure | 25  |
| First-aid measures general            | : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medica advice/attention. Call a POISON CENTER or doctor/physician.  |
| First-aid measures after inhalation   | : Remove to fresh air and keep at rest in a position comfortable for breathing.   |
| First-aid measures after skin contact | <ul> <li>Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash<br/>with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs<br/>Get medical advice/attention.</li> </ul> |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Fatal if swallowed. Immediately call a POISON CENTER<br>or doctor/physician.   |
| 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    | : Coughing. Irritation of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| Symptoms/injuries after skin contact  | : Itching. Red skin. Causes skin irritation. Skin rash/inflammation.  |
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| Symptoms/injuries after eye contact                  | : Redness of the eye tissue. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Causes serious eye irritation.   |
| Symptoms/injuries after ingestion                    | : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.  |
|  | edical attention and special treatment needed  |
| No additional information available                  |  |
| <b>SECTION 5: Firefighting measur</b>                | es   |
| 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                | ne substance or mixture  |
| Fire hazard  | : Highly flammable liquid and vapor.   |
| Explosion hazard                                     | : May form flammable/explosive vapor-air mixture.  |
| 5.3. Advice for firefighters                         |  |
| Firefighting instructions                            | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any<br>chemical fire. Prevent fire-fighting water from entering environment.   |
| Protection during firefighting                       | : Do not enter fire area without proper protective equipment, including respiratory protection.  |
| SECTION 6: Accidental release r                      | neasures   |
| 6.1. Personal precautions, protectiv                 | ve equipment and emergency procedures  |
| General measures                                     | : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.   |
| 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                       |  |
|  | Notify authorities if liquid enters sewers or public waters.   |
| 6.3. Methods and material for conta                  | ainment and cleaning up  |
| For containment                                      | : Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the lea<br>cut off the supply.  |
| Methods for cleaning up                              | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.   |
| 6.4. Reference to other sections                     |  |
| See Heading 8. Exposure controls and pers            | sonal protection.  |
| <b>SECTION 7: Handling and storage</b>               | ye   |
| 7.1. Precautions for safe handling                   |  |
| Additional hazards when processed                    | : Handle empty containers with care because residual vapors are flammable.   |
| 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 or vapor. No naked lights. No smoking. Use only non-sparking tools. 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking an when leaving work. Do not eat, drink or smoke when using this product.   |
| 7.2. Conditions for safe storage, inc                | cluding any incompatibilities  |
| Technical measures                                   | <ul> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond<br/>container and receiving equipment. Use explosion-proof electrical, ventilating, lighting<br/>equipment.</li> </ul>  |
|  | : Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof   |
| Storage conditions                                   | place. Keep container tightly closed.  |
| Storage conditions Incompatible products             | <ul><li>place. Keep container tightly closed.</li><li>Strong bases. Strong acids.</li><li>Sources of ignition. Direct sunlight. Heat sources.</li></ul>  |

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## 7.3. Specific end use(s)

Follow Label Directions.

| <b>SECTION 8: Expo</b> | sure controls/personal protection   |                        |  |
|------------------------|-------------------------------------|------------------------|--|
| 8.1. Control para      | meters                              |                        |  |
| 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/m <sup>3</sup>   |  |
| 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 C    | 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                |  |
| 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                |  |
| USA ACGIH              | ACGIH STEL (mg/m <sup>3</sup> )     | 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                |  |
| Acetone (67-64-1)      |                                     |                        |  |
| USA ACGIH              | ACGIH TWA (mg/m <sup>3</sup> )      | 1188 mg/m <sup>3</sup> |  |
| 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/m <sup>3</sup> ) | 2400 mg/m <sup>3</sup> |  |
| USA OSHA               | OSHA PEL (TWA) (ppm)                | 1000 ppm               |  |

### 8.2. Exposure controls

Appropriate engineering controls Personal protective equipment

- : Local exhaust venilation, vent hoods.
- : Gloves. Safety glasses. Avoid all unnecessary exposure.



: Wear protective gloves.

: Chemical goggles or safety glasses.

: Wear suitable protective clothing.

Hand protection

Skin and body protection

Eye protection

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| 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 |  |

| 9.1. Information on basic physical and      | chemical properties                  |
|---|--------------------------------------|
| Physical state                              | : Liquid                             |
| Appearance                                  | : Liquid.                            |
| Color                                       | : Colourless to light yellow.        |
| Odor  | : Acetone odour. Solvent-like odour. |
| Odor threshold                              | : No data available                  |
| рН  | : 7                                  |
| Relative evaporation rate (butyl acetate=1) | : 6                                  |
| Relative evaporation rate (ether=1)         | : 2                                  |
| Melting point                               | : No data available                  |
| 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                            | : 0.78                               |
| 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                        | : No data available                  |
| Oxidizing properties                        | : No data available                  |
| Explosive limits                            | : No data available                  |
| 9.2. Other information                      |                                      |
| VOC content                                 | : 10 %                               |
| SECTION 10: Stability and reactivity        |                                      |

| SECH       | ON 10: Stability and reactivity   |
|------------|---|
| 10.1.      | Reactivity  |
| No addit   | ional information available   |
| 10.2.      | Chemical stability  |
| Highly fla | ammable liquid and vapor. May form flammable/explosive vapor-air mixture. |
| 10.3.      | Possibility of hazardous reactions  |
| Not esta   | blished.  |
| 10.4.      | Conditions to avoid   |
| Direct su  | unlight. Extremely high or low temperatures. Open flame.                  |
| 10.5.      | Incompatible materials  |
| Strong a   | cids. Strong bases.   |
| 10.6.      | Hazardous decomposition products  |
| Toxic fur  | ne Carbon monoxide. Carbon dioxide. May release flammable gases.          |
| SECTI      | ON 11: Toxicological information  |
| 11.1.      | Information on toxicological effects                                      |
|            |   |
| Acute to:  | xicity : Not classified   |

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| • • • •  |   |
|--|---|
| 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<br>bodyweight; Rat; Read-across)             |
| LD50 dermal rabbit                                 | > 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg<br>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<br>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.<br>pH: 7  |
| 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         | : Based on available data, the classification criteria are not met.   |
| symptoms<br>Symptoms/injuries after inhalation     | : Coughing. Irritation of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.       |
| Symptoms/injuries after skin contact               | : Itching. Red skin. Causes skin irritation. Skin rash/inflammation.  |
|  |   |
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Symptoms/injuries after eye contact

: Redness of the eye tissue. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Causes serious eye irritation.

Symptoms/injuries after ingestion

Causes serious eye irritation.May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

12.1. Toxicity

| 12.1. Toxicity                            |  |
|---|--|
| Benzene (71-43-2)                         |  |
| LC50 fish 1                               | 5.3 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)         |
| EC50 Daphnia 1                            | 18 mg/l (24 h; Daphnia magna)                                |
| EC50 other aquatic organisms 1            | 29 mg/l (72 h; Selenastrum capricornutum)                    |
| LC50 fish 2                               | 15.1 mg/l (96 h; Pimephales promelas)                        |
| EC50 Daphnia 2                            | 10 mg/l (48 h; Daphnia magna)                                |
| TLM fish 1                                | 22.5 mg/l (96 h; Lepomis macrochirus; Soft water)            |
| TLM fish 2                                | 32 mg/l (96 h; Pimephales promelas; Hard water)              |
| TLM other aquatic organisms 1             | 10 - 100,96 h  |
| Threshold limit algae 2                   | 50 mg/l (24 h; Phaeodactylum; Photosynthesis)                |
| 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)                        |
|   |  |
| Acetone (67-64-1)                         |  |
| 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.)                              |
| Methanol (67-56-1)                        |  |
| LC50 fish 1                               | 15400 mg/l (96 h; Lepomis macrochirus; Lethal)               |
| EC50 Daphnia 1                            | > 10000 mg/l (48 h; Daphnia magna; Lethal)                   |
| LC50 fish 2                               | 10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)       |
| EC50 Daphnia 2                            | 24500 mg/l (48 h; Daphnia magna)                             |
| Threshold limit other aquatic organisms 1 | 6600 mg/l (16 h; Pseudomonas putida)                         |
| Threshold limit algae 1                   | 530 mg/l (192 h; Microcystis aeruginosa)                     |
| Threshold limit algae 2                   | 8000 mg/l (168 h; Scenedesmus quadricauda)                   |
| 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)                  |
|   |  |

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| Acetone (67-64-1)   |   |
|---|---|
| Threshold limit algae 2   | 3400 mg/l (48 h; Chlorella sp.)   |
| 2.2. Persistence and degradability  |   |
|   | E PARTS CLEANER CALIFORNIA 5 GALLON   |
| Persistence and degradability   | Not established.  |
| Benzene (71-43-2)   |   |
| Persistence and degradability   | Biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the  |
|   | 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  |
| 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 <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.   |
| Acetone (67-64-1)   |   |
| Persistence and degradability   | Not established.  |
| Methanol (67-56-1)  |   |
| Persistence and degradability   | Readily biodegradable in water. Biodegradable in the soil.  |
| Biochemical oxygen demand (BOD)   | $0.6 - 1.12 \text{ g } O_2 / \text{g substance}$  |
| 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 % ThOD  |
| 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 $O_2$ /g substance   |
| BOD (% of ThOD)   | (20 day(s)) 0.872   |
|   |   |
| 2.3. Bioaccumulative potential  |   |
|   | E PARTS CLEANER CALIFORNIA 5 GALLON   |
|   | E PARTS CLEANER CALIFORNIA 5 GALLON Not established.  |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential   |   |
| JOHNSEN'S NON-CHLORINATATED BRAK  |   |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)  | Not established.  |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)<br>BCF fish 1<br>BCF other aquatic organisms 1   | Not established.         19 Salmo gairdneri (Oncorhynchus mykiss)   |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)<br>BCF fish 1<br>BCF other aquatic organisms 1<br>Log Pow  | Not established.         19 Salmo gairdneri (Oncorhynchus mykiss)         30 (24 h; Chlorella sp.; Fresh weight)  |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)<br>BCF fish 1<br>BCF other aquatic organisms 1<br>Log Pow<br>Bioaccumulative potential                                     | Not established.         19 Salmo gairdneri (Oncorhynchus mykiss)         30 (24 h; Chlorella sp.; Fresh weight)         2.13 (Experimental value)  |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)<br>BCF fish 1<br>BCF other aquatic organisms 1<br>Log Pow  | Not established.         19 Salmo gairdneri (Oncorhynchus mykiss)         30 (24 h; Chlorella sp.; Fresh weight)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500). |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)<br>BCF fish 1<br>BCF other aquatic organisms 1<br>Log Pow<br>Bioaccumulative potential<br>Toluene (108-88-3)<br>BCF fish 1 | Not established.         19 Salmo gairdneri (Oncorhynchus mykiss)         30 (24 h; Chlorella sp.; Fresh weight)         2.13 (Experimental value)  |
| JOHNSEN'S NON-CHLORINATATED BRAK<br>Bioaccumulative potential<br>Benzene (71-43-2)<br>BCF fish 1<br>BCF other aquatic organisms 1<br>Log Pow<br>Bioaccumulative potential<br>Toluene (108-88-3)               | Not established.         19 Salmo gairdneri (Oncorhynchus mykiss)         30 (24 h; Chlorella sp.; Fresh weight)         2.13 (Experimental value)         Low potential for bioaccumulation (BCF < 500). |

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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 ( $4 \ge Log$ Kow $\le 5$ ).   |
| Heptane, Branched Cyclic (426260-76-   | 6)   |
| Bioaccumulative potential  | Not established.   |
| Acetone (67-64-1)  |  |
| Bioaccumulative potential  | Not established.   |
| Mothanol (67-56-1)   |  |
| Methanol (67-56-1)<br>BCF fish 1   | < 10 (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<br>Bioaccumulative potential   | -0.24 (Test data) Not bioaccumulative. Not established.  |
|  |  |
| 2.4. Mobility in soil<br>Benzene (71-43-2)   |  |
|  | 0.029 N/m (20 °C)  |
| Benzene (71-43-2)  | 0.029 N/m (20 °C)  |
| Benzene (71-43-2) Surface tension  | 0.029 N/m (20 °C)<br>0.03 N/m (20 °C)  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension  |  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)   |  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension   | 0.03 N/m (20 °C)   |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)  | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension  | 0.03 N/m (20 °C)   |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)   | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)<br>0.023 N/m (20 °C)   |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension  | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)   | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)<br>0.023 N/m (20 °C)   |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)<br>Surface tension  | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)<br>0.023 N/m (20 °C)   |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)<br>Surface tension<br>2.5. Other adverse effects<br>Other information<br>SECTION 13: Disposal consider                                | 0.03 N/m (20 °C)         0.020 N/m (20 °C)         0.023 N/m (20 °C)         0.0237 N/m (20 °C)         : Avoid release to the environment.  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)<br>Surface tension<br>2.5. Other adverse effects<br>Other information<br>ECTION 13: Disposal consider<br>3.1. Waste treatment methods | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)<br>0.023 N/m (20 °C)<br>0.0237 N/m (20 °C)<br>: Avoid release to the environment.<br>ations  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)<br>Surface tension<br>2.5. Other adverse effects<br>Other information<br>SECTION 13: Disposal consider                                | 0.03 N/m (20 °C)         0.020 N/m (20 °C)         0.023 N/m (20 °C)         0.0237 N/m (20 °C)         : Avoid release to the environment.  |
| Benzene (71-43-2)<br>Surface tension<br>Toluene (108-88-3)<br>Surface tension<br>Heptane (142-82-5)<br>Surface tension<br>Methanol (67-56-1)<br>Surface tension<br>Acetone (67-64-1)<br>Surface tension<br>2.5. Other adverse effects<br>Other information<br>ECTION 13: Disposal consider<br>3.1. Waste treatment methods | 0.03 N/m (20 °C)<br>0.020 N/m (20 °C)<br>0.023 N/m (20 °C)<br>0.0237 N/m (20 °C)<br>: Avoid release to the environment.<br>ations<br>: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, |

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## **SECTION 14: Transport information**

|  | nsport information<br>R / RID / IMDG / IATA / AI   | DN  |
|--|--|---|
| US DOT (ground):   | UN1993, Flammable lic  | juids, n.o.s. (Acetone, Heptane, Methanol), 3, II   |
| ICAO/IATA (air):   | UN1993, Flammable liquids, n.o.s. (Acetone, Heptane, Methanol), 3, II  |   |
| IMO/IMDG (water):  | UN1993, Flammable liquids, n.o.s. (Acetone, Heptane, Methanol), 3, II  |   |
| Special Provisions:  | <ul> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul> |   |
| 14.2. UN proper s  | shipping name  |   |
| 14.2.         UN proper shipping name           Proper Shipping Name (DOT)           Department of Transportation (DOT) Hazard           Classes |  | <ul> <li>Flammable liquids, n.o.s. (Acetone, Heptane, Methanol)</li> <li>3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120</li> </ul>   |
| Hazard labels (DOT)  |  | : 3 - Flammable liquid  |
| DOT Symbols  |  | : G - Identifies PSN requiring a technical name   |
| Packing group (DOT)  |  | : II - Medium Danger  |
| DOT Special Provisions (49 CFR 172.102)  |  | <ul> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>  |
| DOT Packaging Excep  | tions (49 CFR 173.xxx)   | : 150   |
| DOT Packaging Non Bulk (49 CFR 173.xxx)<br>DOT Packaging Bulk (49 CFR 173.xxx)   |  | : 202<br>: 242  |
| 14.3. Additional info  | ormation   |   |
| Other information  |  | : No supplementary information available.   |
| Overland transport<br>No additional information<br>Transport by sea<br>DOT Vessel Stowage L  |  | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. |
| Air transport  |  |   |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)   |  | : 5L  |
| DOT Quantity Limitatio<br>CFR 175.75)  | ons Cargo aircraft only (49  | : 60 L  |
| 05/11/2014   |  | EN (English LIS) 10/12  |

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| 15.1. US Federal regulations  |   |  |
|---|---|--|
|   | E PARTS CLEANER CALIFORNIA 5 GALLON   |  |
| SARA Section 311/312 Hazard Classes   | Delayed (chronic) health hazard<br>Fire hazard<br>Immediate (acute) health hazard |  |
| Toluene (108-88-3)  |   |  |
| Listed on United States SARA Section 313<br>Listed on the United States TSCA (Toxic Sub | stances Control Act) inventory  |  |
| SARA Section 311/312 Hazard Classes   | Delayed (chronic) health hazard<br>Fire hazard<br>Immediate (acute) health hazard |  |
| Heptane, Branched Cyclic (426260-76-6)  |   |  |
| Not listed on the United States TSCA (Toxic   | Substances Control Act) inventory   |  |
| SARA Section 311/312 Hazard Classes   | Fire hazard<br>Immediate (acute) health hazard<br>Delayed (chronic) health hazard |  |
| Methanol (67-56-1)  |   |  |
| Listed on United States SARA Section 313<br>Listed on the United States TSCA (Toxic Sub | stances Control Act) inventory  |  |
| SARA Section 311/312 Hazard Classes   | Immediate (acute) health hazard<br>Delayed (chronic) health hazard<br>Fire hazard |  |
| Acetone (67-64-1)   |   |  |
| Listed on the United States TSCA (Toxic Sub   | stances Control Act) inventory  |  |
| SARA Section 311/312 Hazard Classes   | Immediate (acute) health hazard<br>Fire hazard<br>Delayed (chronic) health hazard |  |
| 5.2. International regulations  |   |  |
| CANADA  |   |  |

| JOHNSEN'S NON-CHLORINATATI        | ED BRAKE PARTS CLEANER CALIFORNIA 5 GALLON  |
|-----------------------------------|---|
| WHMIS Classification              | Class B Division 2 - Flammable Liquid   |
| Toluene (108-88-3)                |   |
| WHMIS Classification              | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects   |
| Heptane, Branched Cyclic (426260  | 1-76-6)   |
| WHMIS Classification              | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects  |
| Methanol (67-56-1)                |   |
| WHMIS Classification              | Class B Division 2 - Flammable Liquid<br>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| Acetone (67-64-1)                 |   |
| Listed on the Canadian DSL (Domes | tic Sustances List)   |
| WHMIS Classification              | Class B Division 2 - Flammable Liquid<br>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)

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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 N; R51/53 R66

Full text of R-phrases: see section 16

#### 15.2.2. National regulations

#### 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 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-CHLORINATATED BRAKE PARTS CLEANER CALIFORNIA 5 GALLON |  |  |
|---|--|--|
| State or local regulations  | U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) |  |

| Acetone (67-64-1)  |  |   |   |                                      |
|--|--|---|---|--------------------------------------|
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significance risk level<br>(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.

| 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  |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment - Chronic Hazard Catego  |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment - Chronic Hazard Catego  |
| Asp. Tox. 1                         | Aspiration hazard Category 1                                  |
| Eye Irrit. 2A                       | Serious eye damage/eye irritation Category 2A                 |
| 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   |
| H224                                | Extremely flammable liquid and vapor                          |

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| H225 | Highly flammable liquid and vapor                                    |
|------|--|
| 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<br>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                    |

| 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,<br>and are not reactive with water.                    |
| HMIS III Rating    |  |
| Health             | : 2 Moderate Hazard - Temporary or minor injury may occur  |
| Flammability       | : 3 Serious Hazard   |

| . iainina binty |                    |
|-----------------|--------------------|
| Physical        | : 0 Minimal Hazard |

: B

Personal Protection

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

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.