



Tompkins Industries, Inc.

Material Safety Data Sheet

Section I. Chemical Product and Company Identification

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| Product Name/ Trade Name | Tompkins® Brake Cleaner N-C | Date Printed | 1/11/2005 |
| Product ID No. | TOMP-0229 | Approval Date | 1/11/2005 |
| Supplier | Tompkins® Industries, Inc. 944 N. Chestnut Trafficway Kansas City, MO 64120 USA | Supersedes Date | 1/10/2005 |
| Chemical Family | Mixture | CAS # | COMPLEX MIXTURE CAS Number Not Applicable |
| Material Uses | Brake parts cleaner | In Case of Emergency | CHEM-TEL: 800-255-3924 (North America) 813-248-0585 Collect (International) |
| | | Information | Phone: 800-255-1008 Fax: 800-959-3333 www.tompkinsindustries.com |

Section II. Composition and Information on Ingredients

| Name | PEL/TLV, Source | CAS # | % by Weight |
|--|-----------------|----------|-------------|
| PROPRIETARY FORMULA. | | | |
| Heptane | 400 ppm, OSHA | 142-82-5 | 10-30 |
| 2-Propanone | 750 ppm, OSHA | 67-64-1 | 40-60 |
| Toluene | 200 ppm, OSHA | 108-88-3 | 10-30 |
| Carbon dioxide | 5000 ppm, OSHA | 124-38-9 | NA |
| Methanol | 200 ppm, OSHA | 67-56-1 | <5 |
| LC ₅₀ , LD ₅₀ of Ingredients | Not available | | |

Section III. Hazards Identification

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| Emergency Overview | Contents under pressure. Flammable. Do not store near heat, sparks or open flame. Store containers below 120°F (49°C). |
| Potential Health Effects: | |
| Eye Contact | Moderate eye irritation. Symptoms can include redness, swelling, pain, tearing and hazy vision. |
| Skin Contact | After prolonged or repeated contact, symptoms can include redness, swelling, blistering, itching and dryness. May be absorbed through the skin in harmful amounts if prolonged and repeated contact occurs. |
| Ingestion | Not likely as an aerosol but, if swallowed, can be harmful or fatal. Can cause irritation of gastrointestinal tissues (pain, vomiting, nausea, blood in vomitus, blood in feces), blood disorders (general feeling of unhealthiness, weakness, fatigue), kidney damage (reduced urine volume, loss of appetite, weight gain, red urine, back pain, painful urination, lethargy), central nervous systems effects (emotional changes, lack of coordination, delirium, tremors, sensory loss, coma), aspiration pneumonitis (coughing, difficulty breathing, wheezing, pneumonia, coughing up blood), and liver damage (yellow skin, tenderness of abdomen, abdominal distension, lethargy, fever, and death). |
| Inhalation | May be harmful or fatal if inhaled. Can cause blood disorders (general feeling of unhealthiness, weakness, fatigue), clotting disorders (bruising easily, increased blood clotting time), gastrointestinal disturbance (nausea, vomiting, diarrhea), cardiac sensitization, heart effects (including arrhythmia, heart attack and death), nervous system effects (including emotional changes, lack of coordination, delirium, tremors, sensory loss, and coma), peripheral neuropathy, chemical pneumonitis, respiratory system irritation, lung damage and pulmonary edema. |

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Section VIII. Exposure Controls and Personal Protection

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| Respiratory Protection | Use NIOSH-approved respirator based on airborne concentration of contaminants in accordance with OSHA regulations. |
| Ventilation | Use with appropriate local exhaust ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection. |
| Protective Gloves | Use chemical-resistant gloves, if needed to avoid prolonged or repeated skin contact. |
| Eye Protection | Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur. |
| Personal Hygiene | Wear non-permeable clothing to protect skin from liquid contact. Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash exposed areas thoroughly with soap and water. |
| Engineering Controls | Implement engineering controls so that workplace exposure limit(s) of product or any component is not exceeded. |
| Exposure Limit | See Section II for ingredient exposure limits. |

Section IX. Physical and Chemical Properties

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| Appearance/Odor | Colorless liquid with aromatic/ketone-like odor | Vapor Pressure | 110 psig @ 70°F (21°C) |
| | | Vapor Density | Heavier than air |
| Odor Threshold | Not available | Percent Volatile | 100% |
| Specific Gravity | 0.73 - 0.75 concentrate | Evaporation Rate | Faster than butyl acetate |
| Density | 6.07 - 6.27 lbs/gal | Viscosity | Not available |
| Molecular Weight | Not available | Solubility in Water | Less than 60% |
| pH | Not available | Coefficient of Water/Oil Distribution | Not available |
| Boiling Point | Complex mixture | Physical State | Liquid and compressed gas in aerosol can |
| Freezing/Melting Point | Not available | | |

Section X. Stability and Reactivity Data

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| Stability | Stable under normal temperatures and pressures. |
| Conditions of Reactivity | Not available |
| Conditions and Materials to Avoid | Strong oxidizers, selected amines, strong acids or bases. |
| Hazardous Polymerization | Hazardous polymerization will not occur. |
| Hazardous Decomposition Products | Carbon oxides can form on incomplete combustion. |

Section XI. Toxicological Information

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| Routes of Entry | Dermal contact, eye contact, inhalation, ingestion. |
| Toxicity to Animals | Not available |
| Effects of Acute Exposure | Not available |
| Acute Effects of Sensitization | Not available |
| Ingestion | Not available |
| Inhalation | Not available |
| Toxically Synergistic Products | Not available |
| Chronic Effects on Humans: | |
| Carcinogenic Effects | Toluene (CAS# = 108-88-3), a component of this product, as rated by IARC: Human Inadequate Evidence, Animal Evidence Suggesting Lack of Carcinogenicity, Group 3; ACGIH: A4 -Not Classifiable as a Human Carcinogen. |
| Mutagenic Effects | Toluene (CAS# = 108-88-3), is being investigated as a mutagen effector. |

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Section XI. Toxicological Information (cont'd)

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| Teratogenic Effects | No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard. |
| Reproductive Effects | Toluene (CAS# = 108-88-3), a component of this product, is being investigated as a reproductive effector. |

Section XII. Ecological Information

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| Ecotoxicity | There is no data available on the adverse effects of this material on the environment. |
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Section XIII. Disposal Considerations

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| Waste Disposal | Consult federal, state or local authorities for proper disposal and reporting procedures. All disposals must comply with federal, state and local regulations. |
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Section XIV. Transportation Information

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| I.A.T.A. Air Transportation: | | U.S. D.O.T. Ground Transportation: | |
| Shipping Name | Aerosols, flammable, n.o.s. | Shipping Name | Consumer Commodity ORM-D |
| Hazard Class | 2.1 | | |
| UN Number | UN1950 | | |
| Packing Group | None | U.S. D.O.T. Remarks | The above U.S. D.O.T. information applies to shipping BY GROUND ONLY. |
| I.A.T.A. Remarks | None | | |

Section XV. Regulatory Information**U.S. Federal Regulations:**

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| CERCLA | Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 : Toluene CAS# = 108-88-3 RQ = 1000 lbs. 2-Propanone CAS# = 67-64-1 RQ = 5000 lb. Methanol CAS# = 67-56-1 RQ = 5000 lb. |
| SARA (Section 313) | This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: Toluene CAS# = 108-88-3 Methanol CAS# = 67-56-1 |
| SARA Extremely Hazardous List | This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List: None |
| TSCA Inventory | All components of this material are on the U.S. TSCA Inventory. |
| California Prop. 65 | This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: Toluene CAS# = 108-88-3 |

International Regulations:

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| Canada | All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and this MSDS contains all the information required by CPR. |
| Japan MITI | Not available |
| Australia | Not available |
| Switzerland | Not available |

Section XVI. Other Information

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| Approval Date | 1/11/2005 |
| Supersedes Date | 1/10/2005 |
| Sections Revised Since Last Version | None |

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