

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner  
MSDS NO. 2413  
Revision Date: 11/13/2007  
Date Printed: 11/13/2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner  
Chemical Family: Non-Chlorinated Hydrocarbon  
Synonyms: None  
Emergency Telephone (24 hr.): 24-Hour Emergency Information: CHEMTREC (800) 424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Toluene 108-88-3	30-40	Not Listed	Not Listed	Not Listed
Methanol 67-56-1	30-40	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	20-30	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	5-15	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Toluene 108-88-3	30-40	Not Listed	200 ppm 375 mg/m <sup>3</sup> 100 ppm	300 ppm
Methanol 67-56-1	30-40	260 mg/m <sup>3</sup> 200 ppm	260 mg/m <sup>3</sup> 200 ppm	Not Listed
Acetone 67-64-1	20-30	2400 mg/m <sup>3</sup> 1000 ppm	1800 mg/m <sup>3</sup> 750 ppm	Not Listed
Carbon Dioxide 124-38-9	5-15	9000 mg/m <sup>3</sup> 5000 ppm	18000 mg/m <sup>3</sup> 10000 ppm	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Toluene 108-88-3	50 ppm	Not Listed	Not Listed
Methanol 67-56-1	200 ppm	250 ppm	Not Listed
Acetone 67-64-1	500 ppm	750 ppm	Not Listed
Carbon Dioxide 124-38-9	5000 ppm	30000 ppm	Not Listed

Other: This product does not contain Normal Hexane (N-Hexane).

## 3. HAZARDS IDENTIFICATION

### Emergency Overview:

Danger: Poison. Extremely Flammable. Content under pressure. Ingestion of even small amounts of methanol can cause blindness and death. This material is an eye and skin irritant. Harmful if absorbed through the skin. Keep away from heat, sparks and flame. Gross inhalation overexposure may cause: respiratory track irritation, kidney damage, blood, liver damage, lung damage and central nervous system depression.

### HMIS Classification:

Health: \*2 Flammability: 3 Physical Hazard: 2

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NFPA Rating: Health: 2 Flammability: 3 Reactivity: 0

### 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.  
**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.  
**Skin Contact:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and shoes, and launder before reuse.

### 5. FIRE FIGHTING MEASURES

#### Flammable Properties

**Flash Point °F(°C):** -20 F (Lowest Component)  
**Flash Point Method:** TAG Closed Cup  
**Flammable Limits in Air - Lower (%):** 2.5% (Lowest Component)  
**Flammable Limits in Air - Upper (%):** 12.8% (Lowest Component)  
**Autoignition Temperature °F(°C):** 725 F (Lowest Component)  
**Extinguishing Media:** Dry chemical. Carbon dioxide. Alcohol foam. Use water spray to keep containers cool that are exposed to heat or flames.

#### Protection Of Fire-Fighters:

**Special Fire-Fighting Procedures:** Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.  
**Hazardous Combustion Products:** Carbon Dioxide. Carbon Monoxide. Formaldehyde.  
**Aerosol Comments:** NFPA Level 3 Aerosol

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.  
**Spill Procedures:** Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.  
**Action to be taken if material is released or spilled:** Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal. Persons not trained should evacuate area.  
**Environmental Precautions:** Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

### 7. HANDLING AND STORAGE

**Handling and Storage:** Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Eyewash stations. Showers.  
**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists.  
**Skin Protection:** Avoid skin contact. Wear protective clothing and gloves.  
**Respiratory Protection:** Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to pale yellow liquid  
 Odor: MILD  
 pH Value: Not Determined  
 Vapor Pressure: Not Determined  
 Vapor Density (Air=1): Approximately 2.0  
 Boiling Point (°F): 133 F (Lowest Component)  
 Melting/Freezing Point: < -110 F.  
 Solubility in Water: 64 %  
 Bulk Density at 20°C: Not Determined  
 Molecular Weight: Mixture  
 Specific Gravity (H20=1): .82 @ 68 F.  
 Viscosity: Not Determined.  
 Evaporation Rate: Not Determined  
 VOC Content(%): 70.1 %  
 Decomposition Temperature: Not Determined

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of handling, use and transportation.  
**Conditions to Avoid:** Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 F.  
**Materials to Avoid:** Nitric acid. Sulfuric Acid. Strong acids. Contact with oxidizing agents. Chlorine compounds. Alkalis. Potassium t-butoxide. Beryllium Dihydride. Magnesium. Nitrogen Tetraoxide. Strong bases. Methanol has an explosive reaction with chloroform + soduim methoxide and diethyl zinc. Methanol has a violent reaction with alkyl aluminum salts, acetyl bromide, chloroform + sodium hydroxide, cyanuric chloride, nitric acid, etc.  
**Hazardous Decomposition Products:** Carbon monoxide. Carbon dioxide. Formaldehyde.  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Data:**

Component	Route	Species	Dose
Toluene 108-88-3	Inhalation	Rats	LC50 49 gm/m <sup>3</sup> /4H
Methanol 67-56-1	Inhalation	Rats	LC50 64,000 ppm
Acetone 67-64-1	Inhalation	Rats	LC50 50100 mg/m <sup>3</sup> /8H
Carbon Dioxide 124-38-9	NA	NA	Not known.

**Carcinogenicity:**

Component	IARC	NTP	OSHA
Toluene 108-88-3	Group 3 (not classifiable)	Not Listed	Not Listed
Methanol 67-56-1	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed

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### 12. ECOLOGICAL INFORMATION

**Remarks:** Ecological testing has not been conducted on this product.

### 13. DISPOSAL CONSIDERATION

**Waste Classification:** Residues and spilled material are hazardous waste due to ignitability.  
**Waste Management:** Not determined.  
**Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

### 14. TRANSPORTATION INFORMATION

**U.S. DOT:**  
**Proper Shipping Name:** ORM-D CONSUMER COMMODITY  
**Hazard Class:** ORM-D  
**UN/NA Number:** Not Applicable  
**DOT Packing Group:** Not Applicable

**IMDG:**  
**Proper Shipping Name:** Aerosols (Limited Quantity)  
**Hazard Class:** 2.1  
**Hazard Subclass:** Not determined.  
**UN No.:** UN1950  
**Packing Group:** Not Applicable.  
**Marine Pollutant:** No

### 15. REGULATORY INFORMATION

**US Federal Regulations:**

Component	SARA 313	SARA 302	TPQ	RQ
Toluene 108-88-3	Listed.	Not Listed	Not Listed	Not Listed
Methanol 67-56-1	Listed.	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed

**US OSHA HEALTH CLASSIFICATION:** Hazardous per OSHA 29 CFR 1910.1200  
**SARA 311/312 Hazard Categories:** Not Determined.

**State Regulations:**

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Toluene 108-88-3	Not Listed	Listed: January 1, 1991 Developmental toxin.	Not Listed	Not Listed
Methanol 67-56-1	Not Listed	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed

