

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Non-Chlorinated Brake Parts Cleaner
MSDS NO. 2456
Revision Date: 10/30/2007
Date Printed: 12/30/2008

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
Acetone 67-64-1	50-60	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	20-30	Not Listed	Not Listed	Not Listed
Methyl Alcohol 67-56-1	20-30	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Acetone 67-64-1	50-60	2400 mg/m ³ 1000 ppm	1800 mg/m ³ 750 ppm	Not Listed
Toluene 108-88-3	20-30	Not Listed	200 ppm 375 mg/m ³ 100 ppm	300 ppm
Methyl Alcohol 67-56-1	20-30	260 mg/m ³ 200 ppm	260 mg/m ³ 200 ppm	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Acetone 67-64-1	500 ppm	750 ppm	Not Listed
Toluene 108-88-3	50 ppm	Not Listed	Not Listed
Methyl Alcohol 67-56-1	200 ppm	250 ppm	Not Listed

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

3. HAZARDS IDENTIFICATION

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

HMIS Classification: Health: *2 Flammability: 3 Physical Hazard: 0
NFPA Rating: Health: 2 Flammability: 3 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
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.

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Non-Chlorinated Brake Parts Cleaner
MSDS NO. 2456
Revision Date: 10/30/2007
Date Printed: 12/30/2008

4. FIRST AID MEASURES

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): -4 F (Lowest Component)
Flash Point Method: CC
Flammable Limits in Air - Lower (%): 1.2% (Lowest Component)
Flammable Limits in Air - Upper (%): 7.1% (Lowest Component)
Autoignition Temperature °F(°C): 725 F (Lowest Component)
Extinguishing Media: Alcohol foam. Carbon dioxide. Dry chemical. Water. 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. Formic Acid.
Aerosol Comments: Not Applicable

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: Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Persons not trained should evacuate area. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Do not puncture or incinerate container. Contents under pressure. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.
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: Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Keep away from heat and open flame. Ground and bond containers when transferring material. Danger: Extremely flammable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless 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: approximately 75%

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Non-Chlorinated Brake Parts Cleaner
MSDS NO. 2456
Revision Date: 10/30/2007
Date Printed: 12/30/2008

9. PHYSICAL AND CHEMICAL PROPERTIES

Bulk Density at 20°C: Not Determined
Molecular Weight: Mixture
Specific Gravity (H2O=1): .86
Viscosity: Not Determined.
Evaporation Rate: Not Determined
VOC Content(%): 44.9
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. Iodine. Chlorine compounds. Alkalies. Potassium t-butoxide. Strong oxidizers. Certain reactive metals, hydrides, moist cesium monoxide, or lithium acetylene carbide diamino may ignite. Phosphorous Trioxide. Chromic Anhydride. Lead Perchlorate. Perchloric Acid and Ethyl Alcohol. Mercuric Oxide and Ethyl Alcohol. Sodium or Potassium Hydroxide and Chloroform. Sulfuric Acid. Passing carbon dioxide over a mixture of sodium peroxide and aluminum or magnesium may explode.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Formaldehyde. Formic acid.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Acetone 67-64-1	Inhalation	Rats	LC50 50100 mg/m ³ /8H
Toluene 108-88-3	Inhalation	Rats	LC50 49 gm/m ³ /4H
Methyl Alcohol 67-56-1	Inhalation	Rats	LC50 64,000 ppm

Carcinogenicity:

Component	IARC	NTP	OSHA
Acetone 67-64-1	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Group 3 (not classifiable)	Not Listed	Not Listed
Methyl Alcohol 67-56-1	Not Listed	Not Listed	Not Listed

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: Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: Flammable Liquid, nos

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Non-Chlorinated Brake Parts Cleaner
 MSDS NO. 2456
 Revision Date: 10/30/2007
 Date Printed: 12/30/2008

14. TRANSPORTATION INFORMATION

Hazard Class: 3
 UN/NA Number: NA1993
 DOT Packing Group: II

IMDG:

Proper Shipping Name: Flammable Liquid, nos
 Hazard Class: 3
 Hazard Subclass: 6.1
 UN No.: UN1993
 Packing Group: II
 Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Listed.	Not Listed	Not Listed	Not Listed
Methyl Alcohol 67-56-1	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
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Not Listed	Listed: January 1, 1991 Developmental toxin.	Not Listed	Not Listed
Methyl Alcohol 67-56-1	Not Listed	Not Listed	Not Listed	Not Listed

